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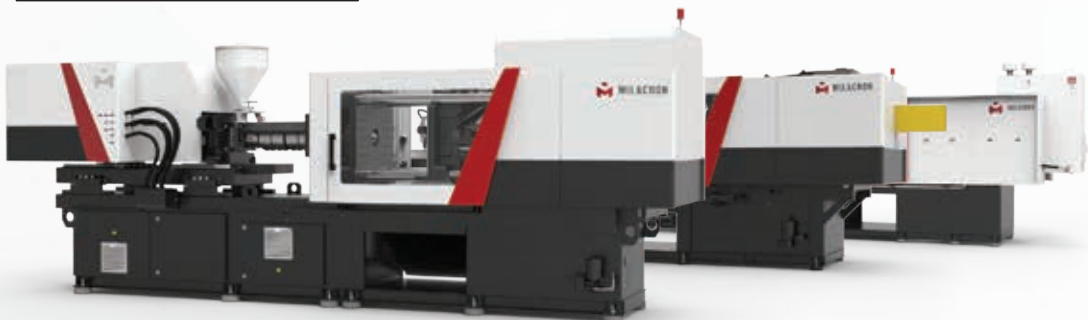
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President's Message

Welcome to PLASTINDIA 2026

It is my great pleasure to extend a heartfelt welcome to all exhibitors, delegates, visitors, partners, and stakeholders attending PLASTINDIA 2026 at the prestigious Bharat Mandapam in New Delhi from February 5 to 10, 2026. On this momentous occasion, Plastindia Foundation proudly presents Insights magazine, Special Issue No. 77, dedicated exclusively to showcasing the exhibition's highlights, innovations, and opportunities. This landmark event, organized by Plastindia Foundation, stands as a testament to the remarkable evolution of our industry. Over the decades, Plastindia has firmly established itself as one of the world's premier platforms for plastics exhibitions and conferences, drawing global attention to India's burgeoning capabilities in this dynamic sector. The 2026 edition builds on this illustrious legacy with renewed vigor, aiming to spotlight cutting-edge advancements, foster enduring business alliances, and propel India towards its vision of becoming a global leader in innovation-driven manufacturing.



Ravish B. Kamath
President, Plastindia Foundation

Uniting the Plastics Value Chain

PLASTINDIA 2026 uniquely assembles the entire plastics ecosystem under one expansive roof, creating unparalleled synergy. From raw material producers and processors to machinery manufacturers, recyclers, compounders, masterbatch and additive specialists, packaging innovators, end-user industries, agile start-ups, academia, and pioneering research institutions—this comprehensive gathering sparks transformative interactions. Participants will discover boundless opportunities for technology transfer, strategic joint ventures, export expansion, and substantial investments. Imagine a vibrant hub where ideas collide, challenges are solved collaboratively, and new pathways to growth emerge, all tailored to the specific needs of our rapidly evolving industry.

Spotlight on Innovation and Sustainability

At the heart of this edition lies an unwavering commitment to technology, innovation, and sustainability—core pillars shaping the future of plastics. Exhibitors will unveil groundbreaking processing and converting machinery, state-of-the-art automation, Industry 4.0 integrations, high-performance materials, precision tooling, and energy-efficient digital manufacturing systems. Equally compelling are the circular economy showcases: advanced recycling technologies, bio-based alternatives, and design-for-recyclability principles that redefine responsible production, usage, and end-of-life management. These displays not only highlight practical solutions but also inspire a shift towards regenerative practices, ensuring plastics contribute positively to environmental goals without compromising performance or scalability.



Pioneering the World's First Zero-Waste Exhibition

I am immensely proud to announce that PLASTINDIA 2026 marks a historic milestone as the world's first zero-waste plastics exhibition. Through meticulous event planning, mindful material selection, and efficient on-site systems for waste collection, segregation, reuse, and recycling, we commit to diverting every ounce of waste from landfills. This bold initiative exemplifies that economic progress and ecological responsibility are not mutually exclusive but interdependent forces. By leading with this standard, Plastindia Foundation sets a global benchmark, urging the entire industry to embrace sustainable operations as a competitive advantage.



Driving India's Economic Momentum

The plastics sector remains a cornerstone of India's economy, fueling GDP growth, bolstering exports, generating millions of jobs, and driving innovation across critical domains like agriculture, infrastructure, automobiles, healthcare, electronics, and packaging. Events like PLASTINDIA 2026 accelerate this momentum by facilitating rapid technology adoption, enhancing market access, and attracting vital investments. In perfect alignment with national imperatives such as Make in India, Atmanirbhar Bharat, and sustainable inclusive development, this exhibition reinforces our collective resolve to build a resilient, self-reliant manufacturing powerhouse.

A Call to Collective Action

On behalf of the Plastindia Foundation, I express profound gratitude to every participant for your unwavering support and enthusiasm. Seize this moment to forge connections, explore innovations, and propel your enterprises forward. Together, let us transform PLASTINDIA 2026—the world's first zero-waste plastics exhibition—into an enduring milestone for industry advancement and national prosperity.

With Warmest Regards,

Ravish Kamath
President, Plastindia Foundation



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PLASTINDIA 2026: Redefining Exhibitions as Zero-Waste



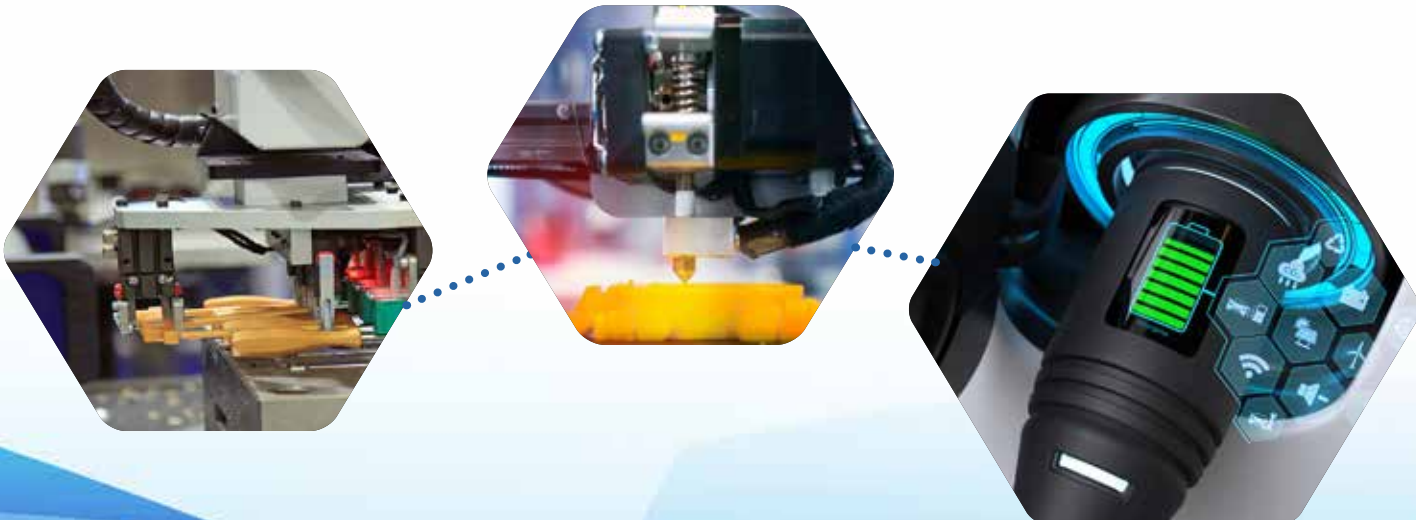
Ramesh Parasuraman
Editor, Plastindia Foundation

Exhibitions serve as pivotal catalysts for industrial advancement, fostering market growth, technological innovation, and global connectivity. These focused events condense extensive year-long engagements into concentrated periods, thereby accelerating innovation and business development across the entire value chain.

The Indian plastics industry is currently experiencing a robust growth trajectory in 2026. This expansion is primarily fueled by a burgeoning domestic market and a strategic pivot towards high-value exports and sustainable operational paradigms. Projections indicate a significant increase in exports, from \$10 billion in 2023 to an anticipated \$15 billion by 2026. This trend underscores India's evolving role from a raw material supplier to a prominent hub for finished plastic products.

PLASTINDIA 2026 is poised to offer an unparalleled platform for Indian manufacturers, including Small and Medium-sized Enterprises (SMEs), Micro, Small, and Medium Enterprises (MSMEs), and emerging startups. This inclusive approach ensures broad exposure to a diverse audience of domestic and international buyers, distributors, and key decision-makers, facilitating crucial business linkages and market penetration.

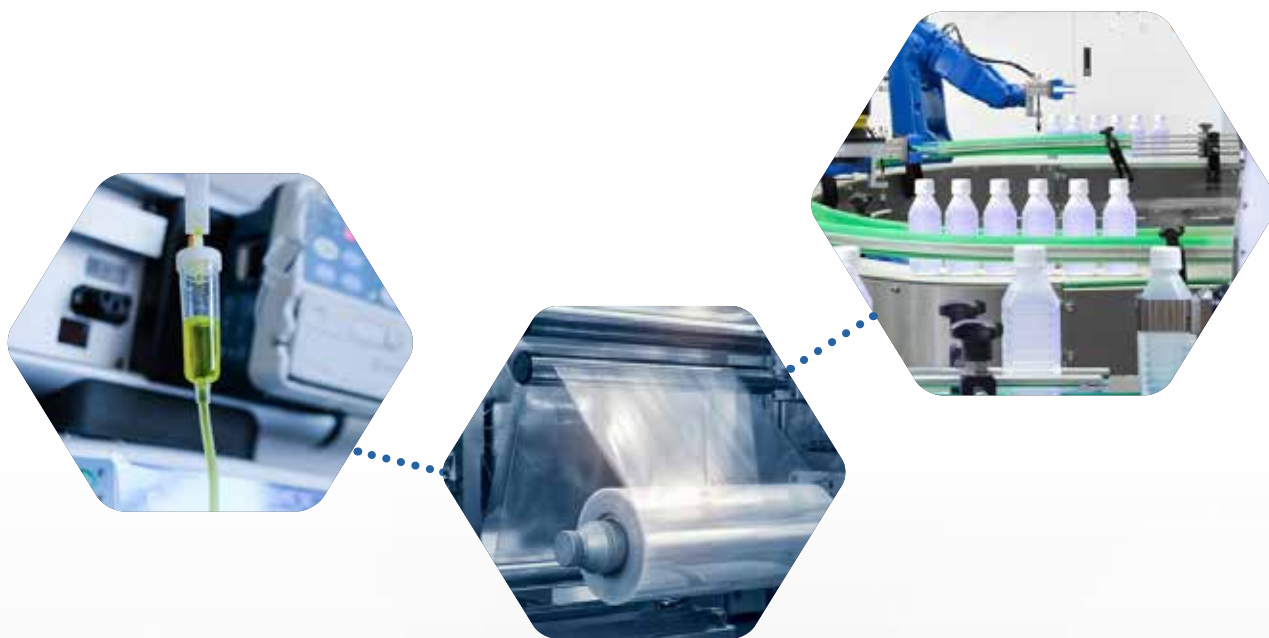
As the 12th edition of PLASTINDIA 2026 approaches its culmination, it is evident that this event is shaping up to be the most ambitious and expansive in its distinguished history. In alignment with the Government of India's 'Atmanirbhar Bharat' (Self-Reliant India) vision, PLASTINDIA 2026 will host a comprehensive series of conferences and conclaves over six dynamic days, commencing February 5-10, 2026, at the Bharat Mandapam in New Delhi. These sessions are meticulously designed to explore groundbreaking advancements in plastics technologies and their profound impact on critical sectors such as space exploration, defense, railways, aerospace, semiconductors, and electronics, all of which present transformative opportunities for the plastics industry.



The events at PLASTINDIA 2026 will function as crucial innovation hubs, showcasing and demonstrating live cutting-edge technologies, advanced processing machinery, and novel materials. Such exposure enables Indian firms to benchmark their capabilities against global standards and facilitates the adoption of advanced manufacturing techniques. These include AI-driven quality control, sophisticated automation systems, and next-generation recycling technologies, all of which are instrumental in boosting efficiency and productivity.

A defining characteristic of this edition is its designation as India's inaugural zero-waste plastics exhibition. This initiative emphatically underscores a commitment to the circular economy and the development of sustainable recycling solutions. PLASTINDIA 2026 represents a significant stride towards achieving a zero-waste exhibition model, and the innovations in biopolymers, circular design principles, and advanced recycling technologies — all designed to meet stringent global environmental compliance standards — will undoubtedly merit close observation.

We eagerly anticipate your presence at PLASTINDIA 2026 to collectively witness and engage with these transformative innovations.



The Born in India - 'PLASTINDIA 2026'



Dear Friends and Colleagues,

Now that the count down for our Flagship PLASTINDIA 2026 has begun, I am sure all of you would recollect, we made three resolutions during our launch function in Mumbai; One, that PLASTINDIA 2026 will be the biggest event ever held in India; second, that PLASTINDIA 2026 will be the world's biggest event in the world of plastics; and third, that it will be the world's first zero-waste exhibition.

I am happy to say that based on the reports we have so far, we are on our way meeting all the three promises, and I am sure all of us are confident that this event will become a major milestone. Our theme "Bharat Next" for this edition of PLASTINDIA 2026 is rightly so for, we believe that in the next 10 years, India's massive youth population will decide the country's economic direction. We have the world's youngest workforce, with more than 50% of people below 35 years and more than 70% below 40. Under

this theme, we want India to be established as a global innovation hub in the coming years.

The idea of "Born in India" is a major step in this direction. We want the next generation to think not only about products made in India, but also about new technologies, ideas, and innovations born in India that can be adopted worldwide. PLASTINDIA 2026 is taking a major step toward being a zero-waste exhibition. Also, when I talk about zero waste, it sends a strong message to the industry.

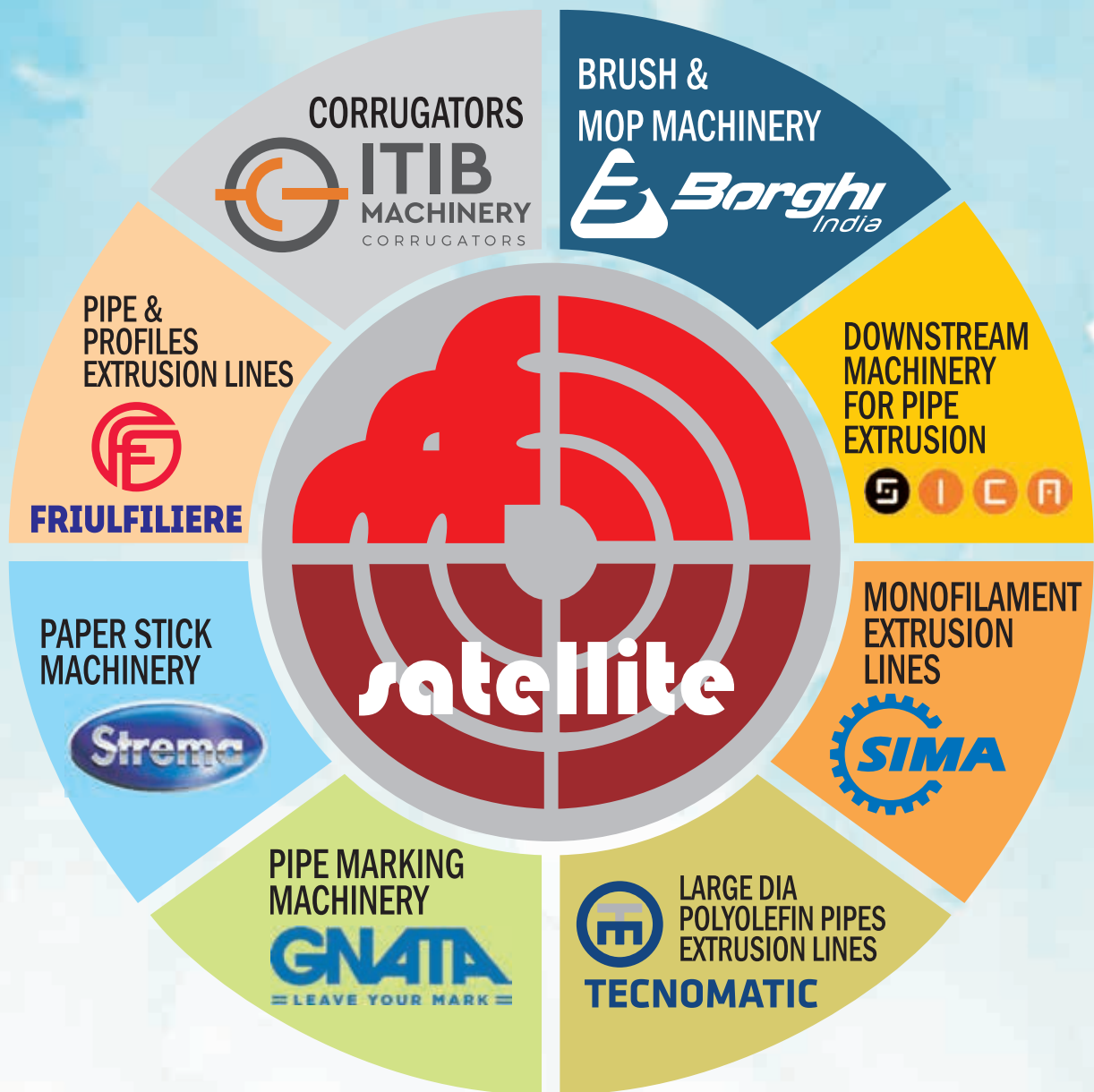
Our objective is to present solutions, not just beautify the picture. Promoting innovation, ideas, recycling, and sustainability is our priority. Plastindia is not just an exhibition; it is a movement. Under this initiative, the 350-400 tons of waste generated in the exhibition will be reused and recycled. Even compostable and food waste will be treated, and not even 100 grams will go to landfill.

We are launching a sustainability vehicle, which will travel through nine states and spread awareness about the circular economy. This vehicle will contain literature explaining how wealth can be generated from waste. Every plastic product in this exhibition will either be reused or recycled. We want to show that if we can achieve this in such a large-scale event, anyone can bring this change into their daily life. Alongside this, products made from recycled plastic will be displayed across 20,000 square feet to demonstrate business opportunities and the benefits of sustainability.

Though we have done numerous roadshows across the country for this edition, the vision of PLASTINDIA 2026 will succeed only when every exhibitor, visitor, and collaborator feels responsible and participates actively in this journey. I am sure they will do so for; the success of this industry is our success.



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PLASTINDIA 2026: The Countdown Begins

Get ready for the 12th PLASTINDIA 2026 – Bharat’s largest-ever plastics exhibition! Taking place from February 5–10, 2026, at Bharat Mandapam, New Delhi, this landmark event will showcase cutting-edge technology, innovation, and excellence in the plastics industry.

Don’t miss this opportunity to witness the future of plastics in India!

The 12th edition of PLASTINDIA 2026 is in its last lap, shaping up to be the most ambitious and expansive event in the series’ history. Set to take place at the iconic Bharat Mandapam, this edition solidifies India’s rising stature as a global hub for plastics innovation, trade, and technology.

Aligning with the Government of India’s ‘Atmanirbhar Bharat’ vision, PLASTINDIA 2026 will host a series of conferences/conclaves across six dynamic days starting February 5-10, 2026 at Bharat Mandapam, New Delhi.

These sessions will explore advancements in plastic technologies and their impact on key sectors including space exploration, defence, railways, aerospace, semiconductors, and electronics—all of which present groundbreaking opportunities for the plastics industry. With over 72,000+ square meters of exhibition space, a remarkable more than 40% increase over previous editions, and more than 2000 exhibitors, PLASTINDIA 2026 is already sold out. This exponential growth reflects India’s escalating influence in the global plastics sector and its increasing appeal as a destination for world-class trade exhibitions.

Strengthening Leadership

Nikhil Meswani to Grace CEO Global Conclave at PLASTINDIA 2026

Mr. Nikhil Meswani, Executive Director, Reliance Industries has agreed to Grace CEO Global Conclave at PLASTINDIA 2026. Mr. Ravish Kamath, President, Plastindia Foundation, Dr. Raju Desai, Vice President Plastindia Foundation and Mr. Dharmendra Gandhi, Hon. Treasurer, Plastindia Foundation, the office bearers of Plastindia Foundation met Mr. Nikhil Meswani, to invite him as Chief Patron for CEO Global Conclave during PLASTINDIA 2026 in Delhi.



Road shows – National and International

Plastindia Foundation is actively conducting road shows not only across the country but also internationally promoting PLASTINDIA 2026, focusing on 'Bharat Next' and 'Make in India', highlighting opportunities, tech, and sustainability, with global participation like K Show 2025 in Germany and CHINAPLAS 2025 as part of its global promotional efforts.

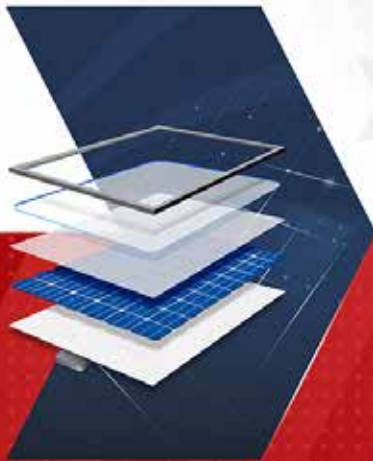
PLASTINDIA 2026 -The First Overseas Preview in Lagos

The first overseas preview event of PLASTINDIA 2026, led by Mr. Gaurang Shah, was held in Lagos, Nigeria, on 13th September 2025 at The Four Points by Sheraton Lagos; a well-regarded hotel on Victoria Island, that was attended by over 200 industry leaders across all major plastics industry segments of Nigeria.

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As a matter of pride for the Indian Delegation, Chief Guest Mr. Chandramouli Kern, Consul General, Consulate General of India, Lagos addressed the audience. Guests of Honour of the likes of Mr. Nari Gwalani, M.D., Poly Products Nigeria Ltd., Lagos Dr. Seun Obasanjo, M.D., Tempo Paper Pulp & Packaging PLC, Ota Mr. N. Mahesh, Consul, Consulate General of India, Lagos made their presence felt.



PLASTINDIA 2026 Sets Global Momentum with a High-Impact Road Show in Russia

The Plastindia Foundation had organized a B2B meeting with Indian plastic exporters in Moscow, Russia, on November 25, 2025. This event served as a promotional road show for the actual PLASTINDIA 2026 exhibition that is scheduled February 5-10, 2026 at Bharat Mandapam in New Delhi.

The event in Moscow offered an opportunity for Russian companies to engage in a Buyer-Seller Meet (BSM) with Indian plastic exporters. The Plastics Export Promotion Council (PLEXCONCIL) one of the founder member of the Plastindia Foundation, with the support of the Embassy of India in Moscow, Russia and PLASTINDIA Foundation, organized a Buyer Seller Meet (BSM) in Moscow, along with an exclusive promotion of the PLASTINDIA 2026 and Plexconnect RBSM @ PLASTINDIA 2026 bringing India and Russia's plastics trade ecosystem a bit closer.

Mr. Rohit Nema, Second Secretary (IFS), (Economic and Commerce Wing) Embassy of India, Moscow, delivered the inaugural address and highlighted the growing synergy and strengthening bilateral trade ties between both nations.

Mr. Nilotpal Biswas, Regional Director, Plexconcil, extended a warm welcome to all participants and delivered an insightful presentation on the dynamic landscape of India-Russia plastics trade, setting the tone for exciting opportunities ahead.

Attendees were also treated to a captivating film on PLASTINDIA 2026, offering an exclusive preview of what promises to be one of the world's biggest and most influential events for the plastics industry. Moreover, attendees of this road show are also offered an opportunity to attend the Plexconnect RBSM during the main PLASTINDIA 2026 event in India, subject to application and approval.



PLASTINDIA 2026 Steps onto the Global stage at K Show 2025

The PLASTINDIA 2026 team made its presence known at the global K Show 2025, the World's No.1 Trade Fair for Plastics and Rubber in Germany, promoting its PLASTINDIA 2026 exhibition as a hub for innovation, sustainability, and "Make in India" manufacturing, focusing on AI, digitalization, circular economy, and advanced processing technologies to attract international participation and partnerships. The PLASTINDIA booth at K-was inaugurated on 9th October 2025 with the ceremonial lighting of the lamp by Mrs. Shuchita Kishore, Hon'ble Consul General of India at Düsseldorf, Germany. This global outreach highlights India's growing role in the plastics industry, inviting the world to explore sustainable solutions and technological advancements.



PLASTINDIA 2026: Kolkata Launch

The PLASTINDIA 2026 Kolkata Launch was held on 12th November 2025 at the IIM Calcutta Innovation Park with the esteemed presence of Mr. Janab Firhad Hakim, Hon. Mayor of Kolkata and Minister of Urban Development & Municipal Affairs, Government of West Bengal, to find sustainable, "Born in India" Plastic innovations that brought together the regional industry leaders setting the tone. Their participation reinforced West Bengal's emergence as a plastics and polymer hub.

"PLASTINDIA 2026 presents a tremendous opportunity, driven by new technology and innovation, to showcase our capabilities to the world. It will serve as a valuable platform for generating fresh ideas, fostering new business ventures, and attracting investments, particularly in West Bengal. I believe that Mr. Alok Tibrewal, NEC Chairman, is a true brand ambassador for West Bengal, and I assure the industry of full support from our State Government and the Hon'ble Chief Minister, Ms. Mamata Banerjee."

- Mr. Janab Firhad Hakim,

Hon. Mayor of Kolkata and Minister of Urban Development & Municipal Affairs, Government of West Bengal.

"It is a pleasure to be associated with PLASTINDIA 2026. I wish the Indian Plastics Industry continued success in achieving global standards, with a strong focus on quality, innovation, and advanced technology. The Indian plastics industry should aspire to be second to none on the world stage."

- Shri Piyush Goyal

Hon'ble Minister of Commerce and Industry.



PLASTINDIA 2026: Indore Launch

The PLASTINDIA 2026 Indore Launch was held at Indore Marriott Hotel, with the Hon'ble Mayor Shri Pushyamitra Bhargav gracing the event as Chief Guest and setting the tone for a future-driven industry dialogue. Mayor highlighted it as India's first zero-waste exhibition, focusing on innovation and sustainability, reinforcing Indore's role in the plastics industry. The launch reinforced Indore's position as a fast-growing industrial powerhouse and a key contributor to India's plastics and polymer growth story.

"The Plastics industry is a vast and vital sector, contributing significantly to the nation's progress, and PLASTINDIA 2026 stands as the largest and most prestigious event representing this industry. I assure everyone present that the Government of Madhya Pradesh will extend all necessary support to foster the continued growth and development of the Plastics industry."

- Hon'ble Mayor Shri Pushyamitra Bhargav





PLASTINDIA 2026: Chennai Launch

The PLASTINDIA 2026 Chennai Launch was held on December 5, 2025 that marked a significant milestone, with Prof. (Dr.) Shishir Sinha, Director General – Central Institute of Plastics Engineering & Technology (CIPET), and Mr. M. Kumar, Managing Director – Shibaura Machine India, gracing the occasion and adding strong momentum to industry-focused dialogue. The event highlighted Chennai's growing role in India's plastics and polymer ecosystem, strengthening the vision for a future-ready industry.

"Today, the common man uses over 1,150 different plastic products in daily life—from the moment one wakes up in the morning until going to bed at night. I am extremely happy to be part of this journey with the Plastindia Foundation, which will undoubtedly serve as a significant boost for industry leaders as well as government organizations like ours."

- Shishir Sinha,

Director General, Central Institute of Plastics Engineering & Technology (CIPET)



PLASTINDIA 2026: Bengaluru Launch

The PLASTINDIA 2026 Bengaluru Launch, held on December 13, 2025 at the Four Seasons marked a key milestone in the build-up to the event as it was graced by Shri M. B. Patil, Hon'ble Minister for Large & Medium Industries and Infrastructure Development, Government of Karnataka, Dr. Selvakumar S, IAS, Principal Secretary, Commerce & Industries Department, Government of Karnataka. Minister M. B. Patil announced the establishment of dedicated Plastic Parks spanning 200 acres in Mangaluru and Vijayapura to support industrial growth in the state. The presence of industry stalwart further strengthened industry–government dialogue as Dr. Selvakumar emphasized the need for a future-ready plastics ecosystem.

“With the continued growth of the plastics sector, I am pleased to share that we are developing a dedicated Plastics Park in coastal Karnataka, at Mangaluru, featuring state-of-the-art facilities tailored specifically for polymer and plastic enterprises. I am delighted to be part of this curtain-raiser, as requested by Mr. Ravish Kamath, President, Plastindia Foundation, and Mr. Alok Tibrewal, NEC Chairman, PLASTINDIA 2026. I assure you that I shall be present at PLASTINDIA 2026, and that Karnataka will be a committed partner in all your initiatives.”

- Shri M. B. Patil,

Hon'ble Minister for Large & Medium Industries and Infrastructure Development, Government of Karnataka



PLASTINDIA 2026: Ahmedabad Launch

The PLASTINDIA 2026 Ahmedabad Launch took place on December 17, 2025, at the Le Meridien, as a major roadshow to mobilize the plastics industry in Gujarat that accounts for over 40% of India's plastics sector. The road show served as a precursor to the 12th edition of the international exhibition as Hon'ble Deputy Chief Minister of Gujarat, Shri Harsh Sanghavi, highlighted Gujarat's leadership role in driving industrial growth, innovation, and global manufacturing excellence.

Deputy Chief Minister Harsh Sanghavi was the Chief Guest while Mamta Verma, Principal Secretary of Industry and Mines Department was the Guest of Honour. The Ahmedabad Launch of PLASTINDIA 2026 marked a powerful step forward in shaping the future of India's Plastics industry.

"Bharat Next is a vision that the youth of my generation may have dreamed of, though few might have imagined organizing an exhibition like PLASTINDIA 2026 on a scale spanning 80,000 square meters. I am grateful to the Plastindia Foundation for its commitment to zero-waste initiatives, which will significantly benefit society at large."

- Shri Harsh Sanghavi,
Deputy Chief Minister, Ahmedabad



PLASTINDIA 2026: Jaipur Launch

The PLASTINDIA 2026 Jaipur Launch was held on December 19, 2025, at the Hotel Marriott in Jaipur. It served as a vital regional roadshow to mobilize the plastics industry in Rajasthan, marking a significant milestone in advancing India's plastics and manufacturing vision. Graced by Shri K. K. Vishnoi, Hon'ble Minister for Industries & Commerce, Government of Rajasthan, the event highlighted Rajasthan's growing role as a progressive industrial hub, driven by policy support, innovation, and future-ready manufacturing. The launch emphasized sustainability, recycling, and automation as core drivers for the sector.

"I would like to extend my best wishes to all the members of the Plastindia Foundation for organizing an exhibition of the magnitude of PLASTINDIA 2026. Rajasthan is likely to witness the development of a refinery in the near future, which will greatly benefit the plastics industry, and I warmly welcome industry entrepreneurs to invest in Rajasthan."

I am particularly impressed by the emphasis on green energy and zero-waste initiatives, aligned with the vision of our Hon'ble Prime Minister, Shri Narendra Modi ji. Rajasthan will extend its full support to all initiatives of the plastics industry in line with the vision of Viksit Rajasthan, Viksit Bharat. I wish you every success in your endeavors."

- Shri K. K. Vishnoi,

Hon'ble Minister for Industries & Commerce, Government of Rajasthan

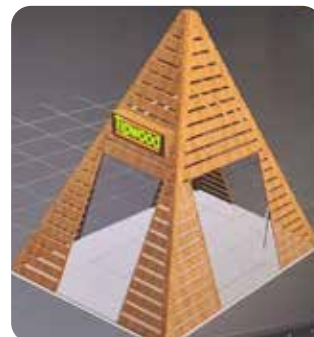


All efforts to bring out the best

With all the hard work Leading global players are gearing up to unveil the latest in cutting-edge technologies, sustainable innovations, and high-performance materials. PLASTINDIA 2026 will not only highlight current industry trends but also serve as a launchpad for the future of plastics.

The Power of Plastics – Open Air Museum

To showcase the strength of the Plastics industry, a large 'Open-Air Museum' shall be installed at various point across the Venue; Bharat Mandapam that shall also provide a photo-op with dedicated 'Selfie Points' for better interaction among the visitors. The museum is designed to demonstrate the "Power of Plastics" across various sectors, highlighting the material's role in modern life, including automotive, construction, healthcare, and electronics. These installations shall also serve its role in creating better awareness guiding everyone for easy navigations and interactions.



Zero-Waste Focus

This edition is marked as India's first zero-waste plastics exhibition, emphasizing a circular economy and sustainable recycling solutions.

PLASTINDIA 2026 is taking a major step toward being a zero-waste exhibition. Under this initiative, the 350-400 tons of waste generated in the exhibition will be reused and recycled. Even compostable and food waste will be treated, and not even 100 grams will go to landfill. We are launching a sustainability vehicle, which will travel through nine states and spread awareness about the circular economy. This vehicle will contain literature explaining how wealth can be generated from waste. Every plastic product in this exhibition will either be reused or recycled. We want to show that if we can achieve this in such a large-scale event, anyone can bring this change into their daily life. Alongside this, products made from recycled plastic will be displayed across 20,000 square feet to demonstrate business opportunities and the benefits of sustainability.

The Final Touches

Now with only a few weeks to go, the PLASTINDIA team has rolled out a comprehensive digital outreach campaign, complemented by exclusive branding and sponsorship opportunities for exhibitors and visitors. This strategic outreach is designed to engage a global audience of manufacturers, buyers, and thought leaders, ensuring strong visibility and maximum impact for all participants.

True to its commitment to sustainability and circular economy principles, PLASTINDIA 2026 promises to be more than just an exhibition; it will be a vision statement for the future of plastics in a self-reliant, sustainable Bharat.



Redefining Circular Plastics

PIF-IIMCP Initiative to Spotlight High-Potential Startups at PLASTINDIA 2026

The PIF-IIMCP Start-up Search Initiative a collaborative effort of Plastindia Foundation (PIF) and the IIM Calcutta Innovation Park (IIMCP) was recently launched with focus on innovation and sustainability. The initiative is a nationwide drive to find and promote innovative ideas for sustainability and circularity within the plastics sector.

While the IIM Calcutta Innovation Park (IIMCIP) is the business incubator of the Indian Institute of Management Calcutta, active in promoting entrepreneurship and sustainability, the Plastindia Foundation, is an apex body of major associations, organisations, and institutions connected with Plastics.

The start-up search initiative's main aim is to connect innovators and entrepreneurs with investors and partners starting with the upcoming PLASTINDIA 2026 event, themed "Bharat Next" that will be a central platform for these start-ups to present their technologies and solutions. This program aims to foster growth in the plastics industry by connecting start-ups with funding and industrial support, with a specific focus on innovation and sustainability. The initiative seeks "Born in India" ideas that promote sustainability and circular practices in the plastics industry. It aims to connect startups with funding, mentorship, and industry partners.

According to industry stalwarts, this initiative will help the plastics industry to take a decisive leap towards ensuring 100% reuse and recycling of plastics, in line with India's national sustainability goals and growing global demand for circular and environmentally responsible product.

Acknowledging his gratitude towards the industry fraternity Mr. Ravish Kamath, President of Plastindia

Foundation, announced, "As per Plastindia Foundation collaboration with IIM Calcutta the start-up search initiative program under the National innovation challenge, will identify high-potential start-ups in plastics, recycling, materials, sustainability, and circular economy. Top 10 start-ups will receive ₹2 lakhs+ prize money each. Winning start-ups will also receive exclusive mentorship from IIM Calcutta."

Mr. Alok Tibrewala, Chairman of the National Executive Committee, Plastindia, said, "The start-up initiative has been designed to accelerate breakthrough ideas and support India's innovation ecosystem with an objective to drive growth and innovation within the Indian plastics sector by providing a platform for start-ups to gain visibility and connect with key players. The innovative start-ups of the initiative will get an Opportunity to showcase solutions at PLASTINDIA 2026 – India's largest plastics event to be held in New Delhi next year."

Adding further he said, "Plastindia Foundation besides the start-up search, is also launching a "zero waste" initiative and partnering with Invest India to attract new investments. Plastindia has partnered with Invest India to facilitate new investments in India's plastics sector, with a goal of securing ₹1 lakh crore in new investments for the plastics processing industry. The initiative supports India's vision for the plastics sector, contributing to job creation and meeting the growing demand for plastics in various sectors like automotive, construction, and packaging."



PLASTINDIA 2026: Turning Circular Economy Commitments into Action on Wheels

The Swachh Bharat Yatra with 'Sustainability on Wheels' is driven by industry, enabled by partnerships, and executed on the ground

As the countdown for the launch of the world's biggest PLASTINDIA 2026 begins, the Plastindia Foundation has initiated the Swachh Bharat Yatra; propagating its Zero-Waste initiative with the 'Sustainability on Wheels'; starting from Telangana to Bharat Mandapam, New Delhi, over its month-long journey across the states.

Plastindia Foundation in its endeavour to ensure Zero-Waste 'PLASTINDIA 2026' exhibition, has collaborated with Switcheko, for its 'Sustainability on Wheels' a mobile unit that helps localized processing of various waste streams (baling, composting, recycling). The initiative is for transitioning waste decisively from vision to on-ground execution during the PLASTINDIA 2026 exhibition.

The initiative supports India's vision for plastics and the team Plastindia has been deliberately working on it. Ravish Kamath, President, Plastindia Foundation

said, "PLASTINDIA 2026 will be a landmark 'Zero-Waste Exhibition', focusing on circular economy, sustainability, and waste elimination, aligning with national initiatives like Swachh Bharat."

The tradeshow aims to showcase innovation in responsible plastic production, reuse, and recovery, demonstrating the industry's commitment towards circular economy and sustainable environment.

NEC Chairman Mr. Alok Tibrewal, has been the force behind this Yatra called 'Sustainability on Wheels' that is scheduled to begin January 11, 2026, covering cities from states like Telangana via (Vidarbha) Maharashtra to Madhya Pradesh, Uttar Pradesh, New Delhi, Rajasthan and back home. The industry engagement and multi-stakeholder collaboration are already underway.



Alok Tibrewal says, “We acknowledge the strong institutional support of the District Collector of Medchal-Malkajgiri, the CEO of T-Works, and the structured planning engagements with the Swachh Bharat Mission team, enabling effective district-level coordination and operational alignment.”

The team PLASTINDIA 2026 is taking major step towards being a zero-waste exhibition. Under this initiative ‘Sustainability on Wheels’, the 350-400 tons of waste generated in the exhibition will be reused and recycled. Even compostable and food waste will be treated, and not even 100 grams will go to landfill.

Anchored in industry leadership, this Yatra positions the plastics sector as a key driver of sustainable

development. It reinforces a critical, evidence-based message: plastic is a valuable material resource however, mismanagement and littering are the real challenges. Through scalable, field-tested solutions, the initiative demonstrates how circular economy principles can be practically implemented across collection, segregation, recycling, and responsible end-of-life management.

More than an awareness campaign, the ‘Swachh Bharat Yatra’ is a platform for industry to showcase accountability, innovation, and execution at scale; bridging policy intent with real-world outcomes. Further, it highlights the sector’s commitment to responsible plastic use, infrastructure-led solutions, and measurable environmental impact.



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A Smarter, Greener and Smoother Experience Awaits at PLASTINDIA 2026

Combining technology, comfort and sustainability, PLASTINDIA 2026 promises a world-class experience that will set new benchmarks for exhibitions globally.

At PLASTINDIA 2026, our foremost goal is to deliver a seamless, world-class experience for exhibitors and visitors - one that goes beyond business to create lasting value. We are focused on eliminating queues and delays, with nearly 200 registration counters and a digital-first registration system to ensure quick, hassle-free entry. Connectivity is being enhanced with a 10 Gigabit Wi-Fi network, offline functionality in the PLASTINDIA 2026 app and golf carts shuttling visitors smoothly across halls. Parking for over 2,000 vehicles and additional space at Bhairon Marg will ensure easy access.

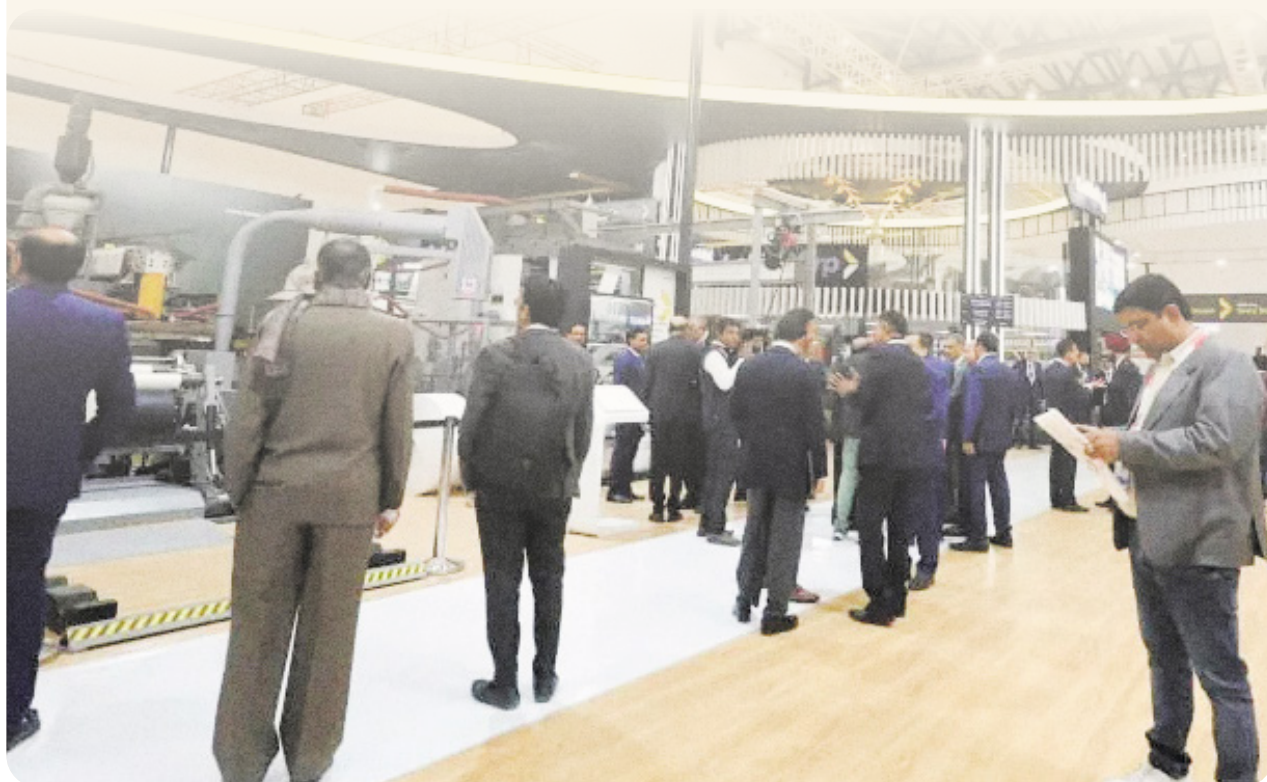
To keep participants comfortable, spacious food courts with 5,000 seats and app-based ordering will offer affordable, convenient dining options. Facilities such as ample seating, green gen-sets and smart navigation through the app will make the event both, sustainable and stress-free. Taking its commitment to sustainability a step further, PLASTINDIA 2026 aims to become the world's first 'Zero-Waste' exhibition, ensuring that all waste generated during the event is either reused, recycled or transformed into something of value.

PLASTINDIA 2026 will showcase India's innovation, manufacturing strength and export potential, reinforcing the nation's standing as a global leader in plastics. It will be a truly memorable and transformative experience for all.



Kailash B. Murarka

Vice Chairman - The National Executive Council, PLASTINDIA 2026





A Multi-Platform Communication Strategy is Powering PLASTINDIA 2026

PLASTINDIA 2026 is being propelled by a robust, multi-platform communication strategy spanning traditional media, digital engagement, outdoor visibility and industry outreach.

The promotion of PLASTINDIA 2026 is being driven through a well-planned, multi-platform communication strategy that combines traditional media, industry outreach and digital engagement. Key platforms include national and regional newspapers, leading industry publications, e-mails, WhatsApp, television and digital news portals, supported by extensive outdoor advertising such as hoardings, metro and airport branding, as well as on-ground visibility through roadshows and press conferences across the country and overseas. These efforts are further complemented by strong engagement with industry associations, trade publications and media as well as global trade bodies.

Social media forms a critical pillar of our outreach strategy. We are actively leveraging LinkedIn, X, Instagram and YouTube to share event updates, exhibitor and visitor highlights, milestone announcements, thought leadership content and short videos featuring industry leaders and sponsors. Our focus is on enhancing comfort for visitors. We will be sharing all the details which are meant exclusive for visitors, enabling them to stay updated about the show. The response from the industry has been extremely positive, with strong engagement, widespread sharing and active participation from companies, MSMEs, startups and international stakeholders. Social media has enabled two-way communication, allowing us to connect directly with the industry and build sustained momentum well ahead of the exhibition.

In the coming weeks, we will further intensify media and industry communication through targeted digital campaigns, international trade media outreach, press interactions, roadshows in key markets and collaborations with overseas associations to attract global visitors. Strategic advertising across print, auto-back, metro branding, ODH and OOH, electronic and digital platforms will continue to enhance visibility and recall. As PLASTINDIA 2026 draws closer, my message to the plastics community is to actively participate and collaborate in this landmark event.



Ashok P. Jajodia

Co-Chairman - National Executive Council, PLASTINDIA 2026



PLASTINDIA 2026 is not just an exhibition; it is a movement called - 'Bharat Next' - that reflects the evolving role and responsibility of the plastics industry in nation-building. Together, let us make PLASTINDIA 2026 a defining milestone that demonstrates the industry's roadmap and commitment towards Viksit Bharat 2047, driving future-ready growth and global partnerships.



PLASTINDIA 2026 Will Define the Next Phase of India's Plastics Industry

PLASTINDIA 2026 will serve as a forward-looking platform where innovation, sustainability and collaboration converge, enabling India's plastics industry to balance competitiveness, circularity and scale, while shaping its future growth trajectory under the 'Bharat Next' vision.

PLASTINDIA 2026 isn't just another exhibition - it's a window into the future of manufacturing in India. This year's theme, 'Bharat Next', reflects our shift not just as a supplier of choice, but as an innovative and reliable platform that leverages and shapes the forces driving the global plastics industry.

The sector is currently being shaped by technological advancements and sustainability imperatives. The confluence at PLASTINDIA 2026 provides a timely platform for the industry to reflect and collaborate on the road ahead. It brings focus to the questions defining the next phase of growth, as manufacturers balance competitiveness, circularity and scale in an increasingly complex global environment.

I am looking forward to this platform showcasing breakthrough innovation, fostering meaningful collaboration across the value chain and reinforcing the industry's commitment to responsible, long-term growth. PLASTINDIA 2026 is an opportunity to shape the trajectory of our sector, not merely observe it. I encourage stakeholders across the plastics ecosystem to engage deeply with the discussions and help define what 'Bharat Next' truly stands for.



Vikram Bhaduria

Co-Chairman - National Executive Council, PLASTINDIA 2026



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Dream of Plastic Industry is Up and Running

Plastindia International University – Shaping the Future of Polymer Education

The plastics industry has long envisioned an ecosystem where world-class education, industry-driven research, and real-time skill development come together under one roof. That dream is no longer distant—it is up, running, and thriving at Plastindia International University (PIU), Vapi.



A Campus Built on Vision

What began as a bold initiative by the Plastindia Foundation has transformed into a fully operational university that blends modern infrastructure with holistic learning. PIU's state-of-the-art laboratories, innovation-driven workshops, digital classrooms, and industry-grade equipment create an environment where students learn by doing.

Each corner of the campus signifies progress—from construction milestones to classrooms filled with curiosity and energy.

Empowering the Next Generation of Polymer Professionals

PIU is designed to address the growing demand for skilled talent in the plastics ecosystem. With specialized programs like:

- B.Tech in Plastics and Polymer Engineering (Regular & Lateral Entry)
- B.Tech in Computer Science and Engineering (Regular & Lateral Entry)

the university is nurturing engineers who are ready to contribute to sustainability, advanced materials, circular economy, and the global plastics revolution.

A New Era for India's Plastics Ecosystem

With its world-class infrastructure, progressive curriculum, and unwavering industry support, PIU stands as a symbol of the plastics industry's dream turning into reality.



IPI Delegation Explores Innovation & Industry in Heilbronn

A 32-member delegation from the Indian Plastics Institute (IPI) undertook a strategic study and collaboration tour to Heilbronn, Germany, on 6–7 November. Organized by WFG Heilbronn under the existing MoU, the visit served as a high-level engagement ahead of K 2025, reinforcing the growing Indo-German partnership across plastics manufacturing, sustainability, circularity, and advanced innovation.

Industry Immersion & Technology Insights

Day 1 provided delegates with an in-depth view of leading German industrial capabilities. Visits to Extricom, Knipping Kunststofftechnik, and PreZero showcased advancements in automation, precision plastics engineering, and cutting-edge recycling technologies. The delegation also toured the emerging Innovation Park Artificial Intelligence (IPAI)—a future-oriented campus designed to accelerate AI integration by bringing together industry, academia, and public-sector innovators. The evening concluded with a guided cultural tour of Heilbronn, followed by a networking dinner at Restaurant Ganesha. Delegates were welcomed by Mayor Agnes Christner, with a special performance by the ACA Action Choir, adding a memorable cultural touch to the program.

Strategic Dialogues at the Audi Forum

On Day 2, the delegation assembled at the Audi Forum, where they were welcomed by Mr. Patrick Dufour, CEO, WFG Heilbronn. The session featured high-value presentations from IPI, WFG, and partner organizations including Tecnar, PreZero, Zoro Energy, Heilbronn University, and Envima. Discussions focused on emerging

opportunities in biopolymers, circular economy models, clean energy solutions, environmental technologies, and collaborative R&D pathways. A notable highlight was the presence of Mr. Steffen Hertwig, Lord Mayor of Neckarsulm, who addressed the delegation with an inspiring message that reaffirmed the commitment to long-term Indo-German industrial cooperation. The visit concluded with an exclusive guided tour of the Audi manufacturing plant, giving delegates firsthand exposure to the precision and engineering excellence that define German automotive production.

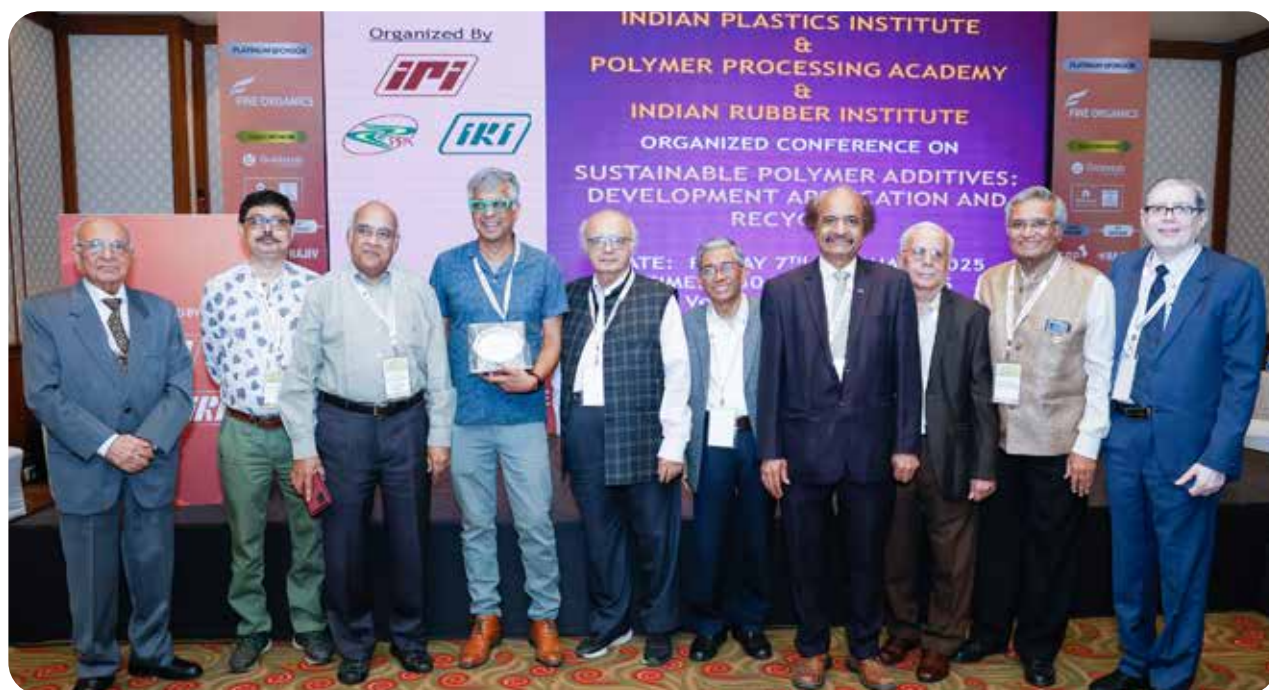


Effective Coordination & Mutual Appreciation

IPI extended its gratitude to the WFG coordination team; Mr. Patrick Dufour, Nisha Anders, Alexandra Wolff, and Antonia Müller—for their meticulous planning, warm hospitality, and seamless execution of the program. The tour was jointly coordinated from the IPI side by Mr. Ranjit Jadhav (Treasurer) and Mr. Kunal Kamdar (Joint Treasurer), with guidance from Dr. Sameer Joshi, Chairman, IPI Governing Council.



Industry Stalwarts Felicitated for The Outstanding Contribution in Field of Polymers



On November 28, 2025, a National conference titled; Sustainable Polymer Additives: Development, Applications and Recycling, was jointly organized by Indian Plastics Institute (IPI) along with Polymer Processing Academy and Indian Rubber Institute (Mumbai Chapter), in Mumbai.

The conference deliberated upon Sustainable Polymer Additives; materials from renewable, recycled, or waste-derived carbon sources engineered to be recyclable, biodegradable, or compostable providing a collaborative platform to elevate science, strategies, and scalable adoption with objective of examining the impact of conventional additives on circular systems, presenting emerging innovations in sustainable additive

technologies, enable dialogue on implementation challenges, policy, and industrial uptake and encouraging cross-sector collaboration in Plastics, Rubber, Elastomers, Fibres, Polyurethanes, & Composites.

During the event the Chairman of Governing Council of Indian Plastics Institute, Dr. Sameer Joshi conferred the Honorary Fellowship of Indian Plastics Institute (FIPI) to Padmashri Dr. Ganpati Yadav (Former VC ICT) and Padmashri Dr. S Sivaram (Former Director CSIR-NCL), in presence of Padmavibhushan Prof. M. M. Sharma and IPI President Shri Rajiv Trivedi, for their outstanding contribution to the field of polymers.



Shri Arvind Mehta Felicitated with the Lifetime Achievement Award



The Legend of the Plastic Industry of India Shri Arvind Mehta, Chairman Governing Council of All India Plastics Manufacturers' Association was felicitated with Life Time Achievement Award during the Inaugural ceremony of RACE - Recycling and Compounding Expo 2025.

The award was presented by Dr. Sajjid Mitha, CEO & Founder of Polymer Update, in presence of Mr. Harsh Mariwala - Chairman Marico, Dr. Avinash Dhanke - Member Secretary MPCB, in recognition of Shri Mehta's remarkable contributions to the growth and global positioning of the Indian plastics industry.

The felicitation ceremony highlighted Shri Arvind Mehta's visionary leadership and lifelong dedication to promoting innovation and industry excellence.



Materials Shaping India's Infrastructure Future

Engineering plastics are doing more than replacing conventional materials enabling a new generation of infrastructure that is smarter, stronger, safer, and sustainable



India's infrastructure sector is entering a new era of modernization driven by rapid urbanization, rising sustainability needs, and ambitious government-led development programs. As the nation builds smarter cities, upgrades transportation networks, expands water and energy systems, and embraces digital infrastructure, the materials used for construction and engineering must evolve. In this transition, engineering plastics have emerged as a critical category of advanced materials reshaping the way India builds, maintains, and manages its infrastructure.

High-performance polymers such as Polycarbonate (PC), Polyamide (PA), Polyethylene Terephthalate (PET), Polybutylene Terephthalate (PBT), Polyvinylidene Fluoride (PVDF), Acrylonitrile Butadiene Styrene (ABS), and reinforced Polypropylene (PP) are increasingly being adopted across the construction, transportation, water management, electrical infrastructure, telecommunications, and renewable energy domains. Their combined property strengths of durability, corrosion resistance, lightweighting, flexible design, impact resistance, electrical insulation, and weather resistant are making them indispensable to modern infrastructure demands.

Engineering Plastics Matter in Infrastructure

Traditional building materials like steel, aluminium, and concrete dominate the infrastructure space. However, at times they do have limitations such as; susceptibility to corrosion, high maintenance costs, heavier weight, and

complex installation requirements.

Engineering plastics are used in infrastructure due to their superior properties like durability, high mechanical strength, and resistance to chemicals and weather. Key applications include piping systems, cable ducts, traffic signals, and road construction materials such as recycled plastic composites for roads and concrete additives to bridge cracks. These materials reduce weight, offer electrical insulation, and can improve the longevity and sustainability of projects.

Engineering plastics address challenges effectively providing key advantages in:

1. Corrosion and chemical resistance
2. Lightweight construction, lowering transportation and installation costs
3. High impact resistance, especially in public-use and high-traffic areas
4. Long service life with low maintenance
5. Electrical insulation and safety
6. Design freedom for complex shapes and integrated functions
7. Weather, UV, and moisture resistance, crucial for India's varied climates

For a fast-developing country, these characteristics translate into faster project execution, lower lifecycle costs, and improved sustainability.

Opportunities for Growth & Innovation

- **Private Capital & PPPs:** The government actively encourages private sector participation through models like the Hybrid Annuity Model (HAM), Toll-Operate-Transfer (TOT), and Public-Private Partnerships (PPPs) to bridge the financing gap.
- **Green Infrastructure:** India's commitment to achieving Net Zero Carbon emissions by 2070 opens opportunities in renewable energy projects (e.g., Khavda Renewable Energy Park), electric mobility (EV charging infrastructure, FAME scheme), and green logistics.
- **Technology Adoption:** There are opportunities for AI-driven route optimization, IoT-enabled fleet management, warehouse automation, blockchain for supply chain transparency, and the use of drones in various applications.
- **Industrial Corridors:** Development of National Industrial Corridors and associated smart cities (e.g., Delhi-Mumbai Industrial Corridor) aims to create world-class manufacturing hubs, attracting both domestic and foreign investment.

Transportation Infrastructure: Safer, Stronger, and More Efficient

India's roadways, railways, airports, and metro systems are among the largest consumers of engineering plastics.

Road Transportation

Engineering plastics are used in Road safety devices such as i) barricades, cones, and reflectors, ii) Noise barriers and soundproof panels along highways, iii) Polycarbonate sheets for signage and protective shields, iv) LED streetlight housings and components. Polycarbonate's impact strength makes it ideal for shatterproof signalling and protective structures, significantly reducing accident risks and maintenance frequency.

Railways and Metro Systems

The Indian Railways and metro networks rely on engineering plastics for both interior and exterior applications such as: - i) Seating components, ii) Grab handles and interior panels, iii) Electrical enclosures and junction boxes, iv) Cable management systems, v) Window glazing using tough polycarbonate. These materials offer flame-retardant properties, lightweighting, and vibration resistance enhancing passenger comfort and safety while improving energy efficiency.

Airports and Public Transportation Hubs

Modern airports require materials that are aesthetically appealing and structurally reliable. Engineering plastics are used in i) Skylights and roofing, ii) LED panel housings, iii) HVAC ducting, iv) Smart security system enclosures. Polycarbonate roofing sheets, for instance, offer high natural light transmission, reducing energy consumption.

Water and Sanitation Infrastructure: A Critical Application Area

As India expands its water distribution, wastewater treatment, and sanitation missions, engineering plastics play a vital role due to their resistance to corrosion, scaling, and chemical attack. Applications include:

- Advanced piping systems made of PVC, CPVC, PP, PE, and PVDF for safe water transport
- Manhole covers and drainage components, replacing heavy cast iron
- Water storage tanks using LLDP and reinforced plastics
- Filtration systems utilizing engineered polymer membranes
- Chemical dosing and treatment equipment using corrosion-resistant PVDF and PA grades
- Plastic manhole covers and drainage systems are gaining popularity for being lightweight, theft-proof, and easy to install.

Building and Construction: From Structural Components to Smart Solutions

The construction sector is incorporating engineering plastics to improve durability, energy efficiency, and speed of installation. Key applications include:



Roofing, Skylights, and Facades

Polycarbonate sheets, acrylic panels, and engineered profiles are used for Industrial skylights, Stadium roofing, Walkway covers, Facade glazing. These provide excellent impact resistance and allow natural light, reducing energy loads in large facilities.

Doors, Windows, and Interior Components

UPVC and engineering polymer blends are replacing wood and metal in Window profiles, Door frames, Partition panels, False ceilings. These materials are termite-proof, weather-resistant, and energy-efficient.

Plumbing and HVAC Systems

Pipes, ducts, fittings, and insulation materials made from engineering plastics enable efficient fluid and air management in buildings. Lightweight PP and HDPE pipes enhance installation speed and durability.

Building the Backbone of Smart Cities

As India rolls out smart grids, data centres, 5G networks, and decentralized energy solutions with its smart cities mission, engineering plastics support long-term reliability and are the handy resources. As we know Smart Cities focusses on Efficient mobility, Sustainable infrastructure, Improved governance with Digital services, Enhanced safety and security, monitoring and reducing air and water pollution, and using resources more sustainably along with better quality of life ensuring adequate housing, education, and healthcare services.

Engineering plastics play a major role in developing infra for smart cities that includes i) Cable trays, conduits, and protective housings, ii) Smart meter enclosures made

from flame-retardant PC/ABS, iii) Battery housings for backup systems, iv) Telecom equipment covers, fiber-optic connectors, and junction boxes, v) Solar junction boxes and inverter components. Their electrical insulation, fire safety properties, and weather resistance make advanced polymers ideal for critical infrastructure.

Renewable Energy: A New Frontier for Engineering Plastics

With India's aggressive renewable energy targets, particularly in solar and wind, engineering plastics are becoming indispensable. In solar infrastructure one would require: i) Panel frames and supports, ii) Junction boxes, iii) Mounting systems, iv) Cable management.

In wind turbines it would be; i) Nacelle covers made from weather-resistant composites, ii) Blade components using engineered polymer resins, iii) Transformer housings and connectors. Lightweight composites help reduce manufacturing costs while improving resilience in harsh environments.

Infrastructure built with engineering plastics often achieves better lifecycle performance than traditional materials.

As India accelerates its infrastructure development over the next decade, engineering plastics will continue to play a crucial role in driving innovation, reducing costs, and building a future-ready nation. From transportation and water systems to buildings, telecom networks, and renewable energy, high-performance polymers are quietly powering India's growth story.





Engineering Plastics is transforming India's automobile sector enabling efficiency, safety, and innovation across the automotive value chain

The Indian automobile industry has long been a reliable barometer of economic performance, given its critical role in both macroeconomic expansion and technological advancement.

The Indian automobile industry is undergoing a paradigm shift, shaped by electrification, lightweighting, digital integration, and stringent regulatory norms. At the core of this transformation is a family of materials increasingly becoming indispensable to vehicle design and manufacturing: Eplastics. These high-performance polymers are no longer just substitutes for metal; they are strategic materials enabling efficiency, safety, and innovation across the automotive value chain.

Within the sector, the two-wheeler segment dominates in terms of volume, driven by a growing middle class, a predominantly young population, and rising demand from rural markets. Demand for commercial vehicles has also strengthened, supported by the expansion of logistics and passenger transportation services. Market growth is expected to be shaped by emerging trends such as vehicle electrification, particularly in three-wheelers and small passenger cars.

India has also established itself as a prominent auto exporter with strong growth prospects in the near future. Automobile exports rose 19% in FY25 to over 5.3 million

units, led by robust demand for passenger vehicles, two-wheelers, and commercial vehicles in global markets. Complementing this momentum, government initiatives such as the Automotive Mission Plan 2026, the scrappage policy, and the Production-Linked Incentive (PLI) scheme are expected to position India as a global leader in both the two-wheeler and four-wheeler markets.

As India emerges as a global automotive hub producing passenger cars, two-wheelers, commercial vehicles, and now electric mobility solutions, the application of engineering plastics has accelerated rapidly. Their unique properties such as high strength-to-weight ratio, heat resistance, wear resistance, electrical insulation, and design flexibility make them critical to today's complex automotive requirements.

The Shift Toward Lightweighting

One of the most significant forces driving the adoption of engineering plastics is lightweighting. With stricter emission regulations, fuel efficiency norms, and performance demands, manufacturers must reduce vehicle weight without compromising durability or safety. Engineering plastics such as Polyamide (PA), Polyacetal (POM), Polycarbonate (PC), ABS, Polypropylene (PP) blends, and PBT deliver the balance required.

By replacing metal components with engineered polymers, automakers can achieve up to 50% weight reduction, improving fuel economy and reducing carbon footprint. This trend is even more pronounced in electric vehicles (EVs), where reducing weight directly translates into extended battery range. Components typically replaced include:

- Pedal and bracket assemblies
- Intake manifolds
- Door handles and interior structural parts
- Air ducts and HVAC components
- Fuel system parts and connectors



Under-the-Hood: High-Temperature, High Performance Applications

The engine compartment is one of the harshest environments in an automobile exposed to high temperatures, chemicals, and mechanical stress. Engineering plastics have proven their capability to perform reliably under these conditions. These under-the-hood applications include:

1. Air Intake Systems

Polyamide 6 and 66 reinforced with glass fibers are widely used for air intake manifolds, resonators, and throttle valve bodies. These materials withstand temperatures above 150°C and offer excellent dimensional stability.

2. Cooling and Fuel System Components

PBT and PA are preferred for coolant housings, fuel rails, thermostat housings, and connectors due to their resistance to fuels, oils, and glycols.

3. Engine Covers and Housings

High-performance polymers allow for complex shapes, noise reduction, and improved aesthetics—benefits difficult to achieve with metals.

The shift from metal to engineered plastics under the hood not only reduces weight but also cuts production costs, simplifies manufacturing through injection moulding, and enhances corrosion resistance.

Opportunities for Growth and Innovation

Opportunities for growth and innovation in the Indian automobile industry include the rapid adoption of electric vehicles (EVs), the expansion of the rural market, and a growing focus on software-defined and connected vehicles. Other key areas are the development of autonomous driving technologies, enhanced shared mobility services, and leveraging the country's potential as a global R&D and export hub.

The government's focus on EVs and initiatives like the FAME scheme and PLI Scheme for ACC battery storage are creating significant opportunities for EV manufacturing and adoption, including the expansion of charging infrastructure.

Government and Policy Support Production-Linked Incentive (PLI) Scheme:

Incentivizes domestic manufacturing to boost growth in sectors like Advanced Chemistry Cell (ACC) battery storage.

FAME Scheme: The Faster Adoption and Manufacturing of (Hybrid &) Electric Vehicles scheme supports EV adoption and charging infrastructure.

Atmanirbhar Bharat Abhiyaan: The "Self-Reliant India" campaign promotes domestic manufacturing and competitiveness.

The EV Revolution: A New Era for Engineering Plastics

India's transition toward EVs is accelerating the demand for engineering plastics more than any other technological shift in the sector. EVs require materials with high dielectric strength, flame retardancy, thermal stability, and mechanical robustness; properties inherent to polymers like PC, PC/ABS, PBT, and specialized high-temperature nylons.

In EVs, engineering plastics are used in:

- Battery packs and module housings
- High-voltage connectors and insulation components
- Charging ports and sockets
- Power electronics housings
- Cooling system components

Firewall-grade, flame-retardant plastics are also essential for safety in high-voltage zones. As Indian EV manufacturers scale production, the reliance on engineering plastics for thermal management, safety, and lightweighting will intensify.

Interior and Exterior Components: Design Meets Functionality

Modern consumers expect vehicles with superior aesthetics, smart functionalities, and noise-free operation. Engineering plastics make this possible by offering unlimited design freedom, colourability, and surface finishes along with interior applications such as: Instrument panels and trims, Centre consoles and dashboards, Switches, knobs, and bezels, Air vents and ducts and Seatbelt components.

ABS and PC/ABS blends provide ideal performance for interiors due to their excellent mouldability, impact strength, and smooth finish. Exterior Applications such as: Bumpers and grilles, Mirrors and housings, Wheel covers, Mudguards and spoilers are equally made up of them. UV-resistant polymer grades ensure durability even under India's harsh climatic conditions. Two-wheelers, particularly, rely extensively on engineering plastics for their body panels, which offer resilience, colour fastness, and lightweight construction.

Safety Components: A Critical Domain for Advanced Polymers

Safety regulations in India are becoming stricter, creating demand for materials that perform reliably under impact and stress. Polycarbonate, known for its outstanding impact resistance, is widely used for: Headlamp lenses, Light guides and reflectors, Interior lighting components, Airbag housings, seatbelt mechanisms, sensor brackets, and various under-dashboard safety modules also use specialty polymers that meet global automotive standards.

Sustainability and Recyclability: Closing the Loop

With sustainability becoming a priority for global and Indian automakers, engineering plastics play a crucial enabling role. Recyclable grades of PA, ABS, PP, PC, and PC/ABS are already used in large volumes. Many OEMs now incorporate recycled engineering plastics (r-ABS, r-PC, r-PP) into non-critical components to reduce environmental impact.

Furthermore, plastic components enable sustainability through: lower fuel consumption due to lightweighting, reduced CO₂ emissions during manufacturing, longer product life and improved durability

India's recycling ecosystem is evolving, and engineering plastics are increasingly entering circular material streams.

Challenges and the Road Ahead

Despite the rapid adoption, the automotive engineering plastics domain faces certain challenges such as: dependence on imported high-performance polymers, need for advanced testing and certification capabilities, skill gaps in polymer engineering and simulation, pressure to balance cost with performance. However, the growing presence of global material science leaders, increasing domestic compounding capacity, and government support for localization are helping overcome these barriers.

Driving Tomorrow's Mobility

Engineering plastics have become vital to India's automotive evolution, fuelled by energy efficiency needs, design innovation, and the massive transition toward electric mobility. As the industry expands its technological horizons, the application of high-performance polymers will only deepen, enabling safer, lighter, and more advanced vehicles. For manufacturers, suppliers, and material innovators, the next decade presents a tremendous opportunity.

Engineering plastics are not just components of vehicles they are catalysts of India's mobility revolution, shaping the future of transportation one polymer at a time.



The role of engineering plastics is expanding in India's appliances revolution as the country is catching up with the smart home revolution, whereby the traditional living spaces are being transformed into smart homes that are convenient and efficient



India's electrical and electronics (E&E) industry is experiencing unprecedented growth, shaped by rising domestic manufacturing, digital transformation, and increasing demand for smart devices. As the industry advances toward miniaturization, efficiency, and safety, the materials used to manufacture components must evolve as well. Among these materials, engineering plastics have emerged as essential enablers of technological progress.

Engineering plastics—such as polycarbonate (PC), ABS, Polybutylene Terephthalate (PBT), Polyamide (PA), and high-performance blends—are now critical across India's electrical systems, consumer electronics, telecom infrastructure, appliances, and emerging IoT devices. Their combination of mechanical strength, electrical insulation, heat resistance, chemical stability, and design flexibility makes them superior alternatives to metals and commodity plastics in numerous applications.

As India positions itself as a global E&E manufacturing hub, particularly through initiatives like "Make in India" and the Production-Linked Incentive (PLI) schemes, the role of engineering plastics continues to deepen.

The Smart Home Revolution

India is catching up with the smart home revolution, whereby the traditional living spaces are being transformed into smart homes that are convenient and efficient. Smart homes are becoming a reality with

automated lighting, intelligent security systems, smart appliances, and more. The use of home appliances in India is rapidly increasing, with the help of the rising internet access, digital penetration, and the growing middle-income population, which is increasingly spending on high-end appliances.

Kitchen appliances are not new in India, and the rise of smart appliances in India is transforming convenience. Smart refrigerators, air purifiers, robotic vacuum cleaners, and smart lighting, enabled by AI, are increasingly available. Redseer estimates that smart home device penetration is 8-10% in 2023, up from under 4% pre-pandemic, and the market is worth Rs. 90,000 crore (US\$ 10.3 billion) and is expected to reach Rs. 1,40,000 crore (US\$ 16.03 billion) by 2028. Security devices will be the fastest-growing segment, with an estimated contribution of about 14% of the market.

From kitchen staples to living room statements

India's household kitchen appliances market was valued at Rs. 1,32,711 crore (US\$ 15.2 billion) in 2024 and is estimated to surpass Rs. 1,92,082 crore (US\$ 22 billion) by 2030, at a CAGR of 6.5%. The market comprises refrigerators, cooking appliances, dishwashers, and range hoods. Refrigerators were the highest in revenue generation, and dishwashers were the fastest-growing segment in 2024.

The home appliances industry in India has evolved from fulfilling basic needs to emerging as an innovation-driven sector. The early penetration was influenced by urban demand for essential appliances; however, government-led electrification and affordable housing programs brought rural dwellers within the scope of electrification. As incomes and dreams are on the rise today, there is an influence towards more energy-efficient, connected products and design-oriented products. Smart home appliances are hastening the replacement of kitchen essentials with statement pieces in the rooms.

Key growth drivers for energy-efficient appliances

- **Rising disposable incomes & affordability**

The growing level of household income and factors like improved production efficiencies and a decline in manufacturing costs are enabling more consumers to afford smart, good-quality, and energy-efficient appliances. This is not only widening the target market base to include households beyond the top-tier cities but also increasing adoption in tier 2 and 3 cities.

- **Demand for smart & energy-efficient products**

Over the years, there has been pent up demand for smart and energy-saving products, including the Internet of Things (IoT) and Artificial Intelligence (AI) - enabled products. From smart fridges to air-conditioners controlled by artificial intelligence, this trend is increasing the usage of technology in homes today.

- **Lifestyle shifts and convenience**

Rising nuclear families, fast-paced lifestyles, and rapid urbanisation are driving demand for automation, advanced security systems, remote surveillance, and time-saving appliances, with products that simplify daily routines and enhance quality of life witnessing strong growth.

- **Government initiatives & e-commerce growth**

Government plans such as 'Make in India' as well as Production-Linked Incentives (PLIs), rising percentages of e-commerce sales (estimated at 7.5% of total sales by 2025), and bullish marketing campaigns are all making modern appliances more affordable, well-known, and popular.

- **Demographics & consumer aspirations**

The growing middle class, along with tech-savvy millennials and Generation Z, combined with rising discretionary spending on home improvement (around 6% annually), is shaping household demand for convenience-driven and lifestyle-oriented appliances. At the same time, greater awareness of energy efficiency and smart technology is further expanding the market.

Categories like security devices (cameras, doorbells, locks), lighting and control (lights, switches, plugs, fans), and small environment appliances (air purifiers, heaters, air coolers) are picking up. According to a Redseer report, the adoption of smart bulbs and smart plugs is strong, with a Net Promoter Score (NPS) of 72 and 66, respectively, whereas the NPS of smart air purifiers is 85. Innovations are being driven by emerging brands such as Mi, Qubo, Atomberg, and established brands such as Philips, Dyson, and Airtel.

Appliances are now not only functional but also used in expressing lifestyle, comfort, connectivity, and aspirations. The increased volume of smart home devices, combined with the increased availability of marketplaces, refurbishing efforts, etc., is prolonging the lifecycle of products and providing consumers with additional means of experiencing convenience and efficiency.

The total appliances market in India was worth Rs. 2,68,915 crore (US\$ 30.8 billion) in 2024 and is projected to reach Rs. 4,05,118 crore (US\$ 46.4 billion) by 2030, growing at a CAGR of 7.2%. Major appliances were the biggest revenue generators, and small appliances were the fastest growing, with India being the fastest-growing market in the Asia Pacific region. The smart kitchen appliances market in India was worth Rs. 9,255 crore (US\$ 1.06 billion) in 2022, which is projected to reach Rs. 42,782 crore (US\$ 4.9 billion) by 2030, growing at a CAGR of 20.9%. Manufacturing centres like Sri City in Andhra Pradesh are enhancing the domestic supply and exports. The Indian appliance market has transformed itself over the years, with the rise in income and adoption of technology, as well as favourable policies, opening up opportunities in both the traditional and smart appliance sectors.



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Safety Meets Reliability

Electrical systems, from household wiring to industrial control panels, depend heavily on materials that ensure fire safety, insulation, structural integrity, and long service life. Engineering plastics meet stringent global safety standards, making them ideal for high-current and high-voltage environments.

1. Switchgear and Distribution Equipment

Switches, sockets, MCBs, MCCBs, isolators, and distribution boards use flame-retardant grades of PC, ABS, PBT, and nylon. These materials provide:

- i) High dielectric strength
- ii) Heat deflection and arc resistance
- iii) Dimensional stability
- iv) UL94 V-0 flame retardancy

Engineering plastics also enable precision moulding of complex shapes needed for contact housings and safety enclosures.

2. Connectors, Insulators, and Electrical Fittings

Connectors and terminal blocks demand materials with both mechanical strength and insulating properties. Glass-filled PA and PBT are widely used due to their ability to withstand heat generated during continuous electrical loads. Streetlight connectors, industrial cable glands, and insulators similarly benefit from these materials' durability and tracking resistance.

3. Enclosures and Control Panels

Modern control panels in factories and commercial spaces increasingly rely on engineering plastics for their enclosures. Polycarbonate and PC/ABS blends offer impact resistance, UV stability, and transparency options, ideal for viewing windows in breaker boxes and smart meters.

Consumer Electronics: Design, Durability, and Aesthetics

India is one of the world's fastest-growing markets for smartphones, televisions, smart appliances, and home automation systems. Engineering plastics enable the sleek designs, robust performance, and safety standards demanded by today's consumers.

Applications include:

Laptop and smartphone housings: PC/ABS delivers toughness with premium aesthetics.

Display frames and bezels: Polycarbonate provides impact strength and scratch resistance.

Internal components: POM, PBT, and reinforced PA ensure structural stability for moving parts and precision-fit assemblies.

Wearables and IoT devices: Lightweight polymers enhance comfort and longevity.

In appliances—air conditioners, refrigerators, washing machines, microwaves—engineering plastics support both functional and aesthetic needs. They enable noise reduction, vibration control, and improved energy efficiency through lightweighting.

Engineering plastics are shaping the foundation of India's fast-growing Appliances; electrical and electronics ecosystem. As devices become smarter, safer, and more compact, these high-performance materials will only grow in significance. Their ability to combine safety, durability, and design freedom ensures that the next generation of Indian-made electronics is not only efficient but globally competitive. In an industry where performance and reliability are critical, engineering plastics are the silent enablers powering India's future component by component, device by device.





Engineering Polymers & Ultra Engineered Polymers (UEP) For Medical Device Industry

-D L Pandya

Editor & CEO, Medical Plastics Data Service

Vice President, SPE India Medical Plastics Division



There are many different types of polymers that can be used in the manufacture of medical components. Commodity thermoplastic materials are starting to be replaced with engineering polymers that can offer better performance qualities and increased stability.

These polymers have greater engineering properties than commodity materials but are more difficult to process. The end result is in terms of the quality and stability they bring to medical components.

Key properties like biocompatibility, strength, durability, and resistance to sterilization make them suitable for these uses.

Specific medical applications

- Implantable devices: Used for devices like knee and hip replacements, spinal fusion cages, and heart valves due to strength, durability, and biocompatibility.
- Surgical instruments: Used for handles, grips, and internal components that must withstand repeated sterilization.
- Drug delivery systems: Used to manufacture

precision components for syringes, IV connectors, and inhalers.

- Diagnostic and imaging equipment: Used for the casings and internal components of machines like X-ray and MRI machines.
- Hospital equipment: Used for components in ventilators, hospital beds, and other equipment that require chemical resistance and light weight.
- Prosthetics: Used for artificial limbs and other aids, focusing on strength, fatigue life, and often cosmetic appearance.
- Packaging: Used for packaging pharmaceuticals and sterile medical devices due to excellent barrier properties that prevent contamination.
- Laboratory supplies: Used for test tubes, beakers, and other containers.

Common engineering plastics and their uses are:

- PEEK (Polyetheretherketone): Used for spinal implants, orthopaedic trauma fixation, and

replacement joints due to its high strength, biocompatibility, and ability to withstand sterilization.

- **(PMP) Polymethyl Pentene:** TPX (PMP) is a transparent polymer with a very high melting point. It is the lightest polymer available, has low moisture absorption and is chemical and heat resistant so is ideal for medical instruments and laboratory equipment that need to be sterilised or autoclaved. Other applications include optical components containing lenses and windows.
- **Copolyester:** Copolyesters are versatile, transparent resins that are impact and chemical resistant, retaining their mechanical properties when exposed to aggressive chemicals such as medical disinfectants and oncology drugs that would affect other polymers. Copolyesters perform well throughout the plastic injection moulding process and are suited to high speed, high volume production. Medical applications include IV components and connectors.
- **Polybutylene terephthalate (PBT):** PBT has consistent mechanical properties, low moisture absorption and produces parts that have good dimensional stability. It performs particularly well during the injection moulding process allowing for faster cycle times. Applications include valves and connectors, clamps, clips, handles and sleeves for surgical, diagnostic and drug delivery devices as well as housings for monitoring equipment.
- **Polyethylene terephthalate (PET):** PET is a lightweight but exceptionally strong material with excellent mechanical and thermal properties combined with resistance to abrasives and chemicals. It is an inert material that promotes tissue growth and is antimicrobial so can be used for surgical implants.
- **Polyamide (PA) Nylon:** Polyamide (PA) Nylon is a lightweight polymer that is strong and durable with exceptional resistance to corrosion and abrasion. It

is heat and chemical resistant to oil, grease, solvents and detergent so is ideal for laboratory equipment, medical device components, tubing and surgical instruments that require frequent or repeated sterilisation.

- **Polyoxymethylene (POM or acetal):** Known for its dimensional stability, POM is a rigid, hard and strong engineering polymer that is low friction and has good electrical insulation. It is a highly crystalline thermoplastic that is ideal for complex components due to its strength and machining ability. It offers excellent wear resistance and chemical resistance particularly to alkalis, disinfectants and solvents. Ideal applications include precision parts for drug delivery equipment, medical devices and orthopaedic instruments.
- **Polycarbonates (PC):** Polycarbonates have high temperature and impact resistance which makes them easy to process without cracking or breaking. PC is transparent, lightweight and robust which makes it ideal for instruments used during surgical procedures. It is also resistant to gamma radiation and can handle tough sterilisation processes. Other devices PC is suited to include endoscopic equipment and dialysis components.
- **Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS):** PC on its own has poor chemical resistance. It is the acrylonitrile that provides the chemical resistance in ABS. PC/ABS produces a material that has the best of both worlds.

A lot of hospital electrical equipment and devices rely on the use of PC/ABS, PC, and ABS for the outer housing due to its glossy appearance and good impact strength.

Ultra Engineered Polymers (UEP) for the Medical Device industry

With a drive within the medical industry to improve patient outcomes using minimally invasive, quicker

procedures, traditional materials have not been able to meet the necessary requirements. Due to their unique performance attributes, UEPs can work in environments and applications in which common engineering polymers would fail. From high temperature exposure, exhaustive sterilization requirements, aggressive chemistry handling, high tensile strength/flexural modulus needs, or excellent dielectric properties, I-JEPS allow for solutions in the most challenging of applications.

There is a wide range of I-JEPS and many are described also as "high-heat" polymers due to their required high temperature processing conditions and heat resistance — the major ones being PEEK, PPSU, PSU, PESU and PEI. They have added a level of performance to plastics that was relatively unknown until not that long ago.

These materials are crucial for medical innovation, as they can withstand demanding environments and multiple sterilization cycles, meeting the requirements for both current and future minimally invasive procedures

Key characteristics and benefits

- **High performance:** I-JEPS possess high tensile and flexural strength, and excellent impact resistance, allowing for the creation of strong and durable parts.

- **Chemical resistance:** They resist aggressive chemicals, solvents, and cleaning agents, making them ideal for use in hospital environments and fluid-handling components.
- **Sterilization compatibility:** Many UEPs can withstand repeated high-temperature sterilization methods like autoclaving and gamma radiation, which is critical for reusable medical devices.
- **Biocompatibility:** UEPs are often biocompatible, making them suitable for medical implants and long-term patient contact.
- **Dielectric properties:** Some UEPs have excellent dielectric properties, which is beneficial for the electronic components found in many medical devices.

An important requirement before using an ultra-engineering material is to find a processor that has the knowledge, skills, and experience necessary for converting them to extruded or injection moulded components. All of these materials require specialized equipment; purpose designed tooling and the knowledge of unique processing methods.



Second Plastics Recycling Awards PRS India 2025 Held In Mumbai

The three-day event served as a vital platform for stakeholders across the entire plastic recycling ecosystem



The Plastics Recycling Show India (PRS India) an industry event focused on the plastics recycling sector, was held in Mumbai from 13-15 November 2025. The three-day event served as a vital platform for stakeholders across the entire plastics value chain, including: Recycling technology and equipment providers, Plastic material suppliers and compounders, Packaging specialists, Waste management specialists and government representatives, including the Maharashtra Pollution Control Board and the Brihanmumbai Municipal Corporation.

The exhibition showcased the latest sustainable solutions, machinery, and technologies for plastics recycling, while the accompanying conference featured international experts discussing key themes such as the circular economy, regulations, challenges, and innovations in the sector.

The event also highlighted India's growing leadership in recycling and resource recovery, with a specific focus on opportunities in flexible plastics and multi-layered plastics, and the role of community-led initiatives.

The Conference with a variety of speakers addressed market trends, policy shifts (like EPR compliance), and new technologies. PRS India 2025 provided extensive business-to-business networking opportunities,

bringing together global and local industry leaders to explore new business opportunities and collaborations.

The second edition of the Plastics Recycling Awards India ceremony was held during the show, recognizing outstanding innovation and achievement in the industry.

Winners of the Best Community Effort for Recycling Award were awarded to Garbage Free India, Har Ghar Hara Ghar and Clean Mumbai Foundation for the Milk Bag Project. The Plastics Recycling Company Award was awarded to Green Worms Waste Management, an UNESCO-recognized social enterprise founded by Jabir Karat tackling India's waste.

While Packem Umasree won the Recycled Plastic Product Award for its 100% Sustainable FIBC Bags made entirely from post-consumer recycled PET, the Technology and Innovation Award was awarded to Padcare Labs for its 5D Sanitary Pad Recycling Technology, India's first solution to safely recycle used sanitary pads.

Sandeep Patel was announced as the Plastics Recycling Ambassador for his visionary leadership in transforming India's waste management and recycling sector.



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Plastics Export Up 4.6% Current Fiscal



India's plastic exports from April to September 2025 grew by 4.6% to USD 6,407 million, up from USD 6,123 million in the same period of the previous year. This cumulative growth was achieved despite a 4.4% contraction in the value of exports in September 2025 compared to September 2024, thanks to strong performance in the earlier months of the fiscal year. According to inputs the total plastic exports from April to September 2025 reached USD 6,407 million, a 4.6% increase over the previous year. Exports for September 2025 were USD 1,054 million, a 4.4% decrease compared to September 2024. The overall positive growth for the April-September period was driven by strong export increases in the months leading up to September. Exports in April 2025 saw positive growth in most plastic product categories, with particularly strong double-digit growth in some areas. The industry aims to achieve a 12% export growth target for the fiscal year 2025–26, supported by expanding opportunities in emerging markets and efforts to secure trade agreements with key partners like the US and UK. India's domestic plastic industry is growing strongly, with forecasts to reach \$44.59 billion by 2030 at a 10.88% CAGR. This growth is driven by government initiatives like "Make in India," increasing consumer demand across key sectors like packaging and automotive, and infrastructure investments. Key trends include a rise in exports, new mandates on plastic waste and recycled content, and strategic investments in production capacity.

Indian Oil Reports ₹7,817 Cr Net Profit In Q2 FY26, Revenue Up 3.9%

The state-run Indian Oil Corporation (IOCL) has reported a consolidated net profit of ₹7,817.55 crore in the second quarter of the financial year 2025-26 (Q2 FY26). During the same period last year, IOCL recorded a net loss of ₹169.58 crore, due to a drop in average gross refining margins (GRMs) the revenue refiners accrue from transforming each barrel of crude oil into refined fuel products. On a sequential basis, profit jumped 14.7 per cent from 6,813.71 crore. The uptick was driven by stronger refining margins amid a decline in international crude oil prices. It earned \$19.6 on every barrel of crude oil it processed in Q2, compared to \$2.15 gross refining

margin in Q1 and \$1.59 in Q2 last year. The average GRM for April–September rose to \$6.32 per barrel from \$4.08 a year earlier, while the September-quarter margin stood at \$10.6 per barrel. IOCL's revenue from operations for the quarter stood at ₹2.06 trillion, up 3.9 per cent year-on-year from ₹1.98 trillion. Sequentially, however, it dropped from ₹2.2 trillion. The Company reported total expenses of ₹1.96 trillion in Q2FY26, down from ₹2.01 trillion in the same quarter last year and ₹2.14 trillion in Q1FY26. IOCL refined 17.609 million metric tons (MMT) of crude oil in Q2 FY26, compared with 16.738 MMT during the same period last year.





Gujarat Fluorochemicals Q2 Results: Profit Up 48%

Gujarat Fluorochemicals Ltd reported a sharp year-on-year rise in profit and operating margins for the September quarter, supported by robust growth in its chemical and fluoropolymer segments. Gujrat Flurochemicals posted a 47.9% year-on-year rise in consolidated net profit to ₹179 crore for the quarter ended September 2025, compared to ₹121 crore in the same period last year. Revenue rose 1.9% to ₹1,210 crore, while EBITDA grew 23.4% to ₹364 crore, improving margins to 30% from 24.8% a year ago. The chemical segment remained the key growth driver, with revenue up 2% YoY and EBITDA surging 26% to ₹381 crore, aided by improved realisations and cost efficiencies. The fluoropolymer division saw 8% annual growth, though a 4% sequential dip was attributed to tariff measures imposed by the United States. The company said volumes of new, high-value fluoropolymers are increasing steadily, with supplies beginning for high-purity grades used in semiconductors, aerospace, and automobile applications — expected to drive both revenue and margin improvement in the coming quarters. The Chemicals segment showed strong performance, while the EV Products segment is still in investment phase. The company appointed Mr. Niraj Kishore Agnihotri and Mr. Shesh Narayan Pandey as Additional and Whole-time Directors, while Mr. Sunil Kumar Singh Chauhan resigned. GFL focuses on expanding its product portfolio and capacity in fluoropolymers, specialty chemicals, and EV battery materials. The company's focus areas include: Expanding its fluoropolymer and specialty chemicals portfolio, Developing high-purity grades for semiconductors, aerospace, and automotive sectors, Ramping up production of R32 refrigerant, Progressing with its battery materials business, including LFP cathode active materials, electrolytes, and binders

Expanding capacity for PVDF, Li-Ion battery chemicals, and green hydrogen materials, Focusing on exports to EV and semiconductor sectors.



■ Ball Corporation Invests \$60m In It's Sri City Facility

US-based aluminium packaging manufacturer the Ball Corporation is investing \$60m to expand production capacity at its manufacturing facility in Sri City, Andhra Pradesh. The latest investment strengthens Ball's regional supply chain in India. It follows a close-to \$55m commitment by the company in 2024 to expand its can manufacturing plant in Taloja, Maharashtra. India's beverage can market is projected to grow by more than 10% annually until 2030, driven by a rising consumer preference for sustainable and convenient packaging formats. Ball Beverage Packaging EMEA [Europe, the Middle East and Africa] and Asia president Mandy Glew stated: "India is key to our global strategy and this investment reflects our focused approach to scaling operations in high-growth markets and securing long-term competitive advantage. "Following our expansions in Taloja and Sri City, we are exploring further investments to support the continued growth of the Indian market as more brands and consumers are choosing aluminium packaging." Ball entered the Indian market in 2016 and operates facilities in Taloja and Sri City, supplying beverage can sizes ranging from 185ml to 500ml to domestic and global brands. The company manufactures packaging for beverage, personal care and household products and has approximately 16,000 employees globally. Ball has reaffirmed its outlook for 2025 full-year comparable diluted earnings per share growth of between 12% and 15%.





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Toppan Installs Hybrid Film Production Line In India

Toppan, a wholly owned subsidiary of Toppan Holdings, has installed a hybrid manufacturing line capable of producing both biaxially oriented polypropylene (BOPP) and biaxially oriented polyethylene (BOPE) films on the same machine. The installation was carried out in collaboration with its India-based subsidiary, Toppan Speciality Films Private Limited (TSF). Toppan operates across a range of sectors including printing, communications, security, packaging, décor materials, electronics and digital transformation. According to the Japanese company, TSF will begin mass production on the new line from mid-November 2025. The facility will supply BOPP and BOPE films to packaging converters and major brand owners in the food and fast-moving consumer goods (FMCG) sectors across India and international markets. The new installation is expected to raise TSF's overall film production capacity by around 40%. It operates at high speed and incorporates an advanced quality management system to maintain uniform thickness, enhance transparency and offer consistent strength across products. Toppan's initiative supports its plan to meet rising demand for recyclable, mono-material sustainable packaging.

This demand is particularly strong in Europe, where companies are shifting from PET to BOPP and BOPE films. The move also aligns with India's Plastic Waste Management Rules and Extended Producer Responsibility (EPR) obligations. By 2027, TSF aims to increase its annual sales volume to around 33,000t. The company also plans to extend its product range to include transparent GL BARRIER films – Toppan's proprietary high-barrier brand – and to develop new films with improved heat resistance and sealing properties.





Olympus Partners Dupont To Launch Sustainable Medical Device Packaging



Medtech company Olympus has collaborated with DuPont de Nemours to develop environmentally responsible packaging solutions for its single-use endotherapeutic devices. The partnership will see Olympus incorporate DuPont's Tyvek with renewable attribution (RA) into the sterile packaging of more than 100 categories of single-use devices from 2026. The solution, launched in November 2024, is designed to reduce the carbon footprint associated with healthcare packaging. Tyvek with RA employs a certified mass balance approach that integrates renewable feedstocks, thereby decreasing reliance on fossil fuels and minimising the carbon footprint of medical packaging. The initial phase of this collaboration will focus on the introduction of medical device packaging using DuPont Tyvek with RA at Olympus's manufacturing facilities in Japan and Vietnam. This will encompass more than 100 single-use device categories, including sampling and therapeutic devices for gastrointestinal and respiratory endoscopes. The transition to sustainable packaging is projected to reduce carbon emissions by one-third of the total carbon footprint of traditional Tyvek. Olympus plans to gradually expand the initiative to additional manufacturing sites and product lines in future phases.

Olympus executive officer and chief technology officer Syed Naveed said, "As a global medtech company, we recognise our responsibility to advance sustainability without compromising the trust and safety that patients and healthcare professionals expect from us. "The adoption of Tyvek with Renewable Attribution in our packaging marks a significant step in reducing our carbon footprint while preserving the integrity and safety of our medical devices." David Domnisch, vice-president and general manager of DuPont, said: "Tyvek with renewable attribution is designed to help reduce the carbon footprint of a product while providing a drop-in solution that can be seamlessly integrated into existing healthcare packaging products." We are excited to work with Olympus and help advance sustainability in the healthcare sector."

■ SPE And Plastics To Merge By Year End



The Plastics Industry Association (PLASTICS) and the Society of Plastics Engineers (SPE) are merging, with the agreement to be finalized by the end of 2025. However, financial details are not known. According to inputs, the organizations plan to finalize the merger by the end of 2025 and begin full operational integration on January 1, 2026. At that point, SPE will become a division of PLASTICS, governed by an Executive Committee modeled after its current structure. SPE members will retain their status, benefits, and identity within the new division. In addition, Patrick Farrey will serve as Executive Vice President of SPE and Chief Integration Officer at PLASTICS. In this role, he will lead the transition and ensure continuity for SPE's programs and stakeholders. Jamie Clark, Chairman of the PLASTICS Board, called the decision "a powerful engine for workforce development, advocacy, and global engagement." Scott Eastman, Chairman of the SPE Board, said the merger will "amplify our mission and elevate the reputation of plastics professionals worldwide." The goal is to create a unified organization that represents the entire plastics supply chain, from technical professionals to corporate leaders. Under the merger, SPE will become a division of PLASTICS, with operational integration set to begin on January 1, 2026. The merger is expected to strengthen workforce development, advocacy, and professional education by combining SPE's technical expertise with PLASTICS advocacy reach. While PLASTICS will provide global reach, advocacy, and resources, SPE will contribute technical expertise, education, and professional networks. As a result, the organizations will drive sustainability initiatives, advance recycling technologies, and promote circularity across the plastics value chain.



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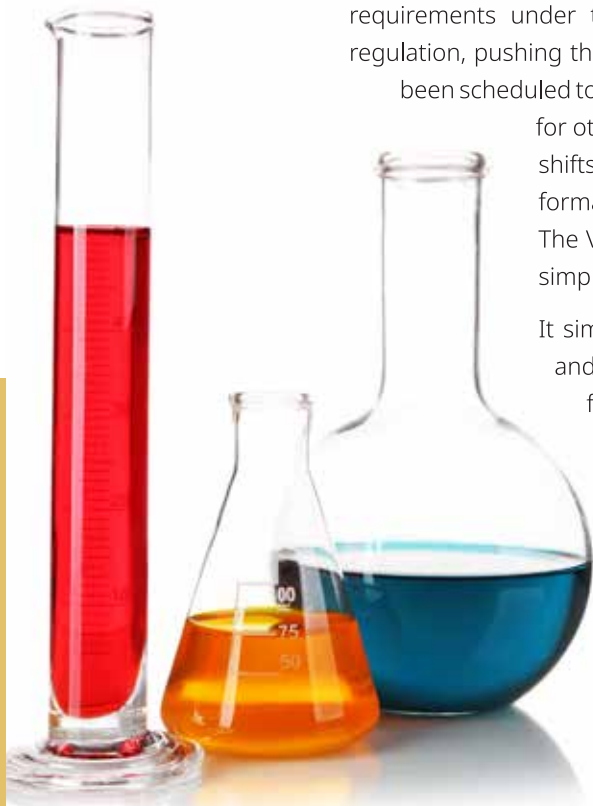
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EU Postpones Chemical Labelling Rules Until 2028



The European Council has formally approved a delay to the application of several core requirements under the EU's revised Classification, Labelling and Packaging (CLP) regulation, pushing their start date to 1 January 2028. These provisions had previously been scheduled to take effect from 1 July 2026 for some elements and 1 January 2027

for others. The decision, forming Part One of the VI Omnibus package, shifts back transitional deadlines covering relabelling, mandatory formats, advertising, online and distance sales, and fuel pump labelling. The VI Omnibus package, unveiled in July 2025, targets administrative simplification for businesses, notably in chemicals regulation.

It simplifies labelling obligations, streamlines compliance procedures and defers certain deadlines. The Danish presidency prioritised the file considering its immediate implications for industry, and the act was adopted without amendments by the co-legislators. The postponement is intended to provide companies with additional time and legal certainty. It also allows legislators more room to conclude negotiations on broader changes to the CLP framework under Part Two of the VI Omnibus package.

The council adopted its mandate for those negotiations on 5 November 2025. The legislation approved by the council will be published in the Official Journal of the EU in the coming days and will take effect 20 days after publication. The initiative builds on calls from EU leaders in 2024 for a coordinated push

to simplify the regulatory landscape. This reflects recommendations in former Italian PM Enrico Letta's "Much More Than a Market" report, and economist and former Italian PM Mario Draghi's "The Future of European Competitiveness." It also aligns with the Budapest Declaration of 8 November 2024, which urged a "simplification revolution" to reduce administrative and regulatory burdens, particularly for small and medium-sized enterprises.



• Nationwide Packaging Recycling Initiative In The Netherlands

US-based coatings and materials manufacturer PPG has launched Sigma EcoCollect, in collaboration with waste logistics provider FIRE-OFF and packaging manufacturer Dijkstra Plastics. Sigma EcoCollect is a nationwide packaging recycling initiative in the Netherlands by PPG's Sigma Coatings brand. The initiative enables professional painters and decorators to return used plastic and metal packaging to more than 90 Sigma Coatings points of sale. The voluntary programme accepts packaging from Sigma Coatings and competing brands. Returned material will be collected and processed for reuse in new Sigma Coatings packaging as part of a closed-loop system.

The rollout follows a pilot in September 2024 that found increasing customer engagement on sustainability, and boosted the volume of returned buckets. With the expansion, Sigma EcoCollect will operate across 32 PPG Sigma service centres and 61 Sigma Coatings wholesalers.

FIRE-OFF will handle logistics, and Dijkstra Plastics will manage material processing. The scheme supports PPG's target to increase post-consumer recycled plastic and metal content in its packaging. PPG's initiative aligns with its Tomorrow Included concept, which highlights the sustainability attributes of its architectural product portfolio and supports customers' environmental objectives. The company's most recent sustainability report cited progress toward its 2030 goals, including reduced greenhouse gas emissions across its operations and value chain, and growth in sales of sustainably advantaged products.

PPG B2B Sigma Coatings Benelux, architectural coatings brand manager Petra Bijma said, "This programme is a powerful step toward circularity. It aligns with PPG's global sustainability targets, including reducing scope 3 emissions [all indirect emissions that occur in a company's value chain] and increasing the use of recycled materials in packaging and limiting waste."





France Introduces Stricter Controls On Packaging And Recycling



France has issued a new decree tightening national rules on packaging and recycling, expanding producer obligations and strengthening oversight of how packaging waste is collected, sorted and recovered. The measure, published in the Journal Officiel, forms part of France's wider effort to reduce waste and support a circular economy. The decree expands France's extended producer responsibility (EPR) system to cover "professional" packaging, i.e. packaging used in business settings rather than only by households. From early 2026, companies that place such packaging on the French market must finance or organise its collection, reuse and recycling. Approved eco-organisations will manage these tasks on behalf of producers and must follow new transparency and cost-efficiency rules.

The government also requires shared traceability tools to ensure clear oversight of where packaging waste goes, how it is treated and whether recycling targets are being met. France is also tightening expectations around packaging design to support higher recycling rates. The decree reinforces national policies promoting eco-designed packaging, reuse systems and clearer recyclability criteria. Producers may face financial incentives or penalties depending on how recyclable or reusable their packaging is. These national updates link with France's existing "3R" targets — reducing, reusing and recycling packaging — including a requirement to cut single-use plastic packaging by 20% by the end of 2025. Operators must provide more detailed reporting on sorting performance and treatment pathways, while producers remain responsible for their packaging waste even when external contractors are involved.

France has also updated its references to cross-border waste-shipment regulations, reflecting new EU rules governing international waste transfers. This ensures that packaging waste moved across borders is handled under the latest European standards.





EU Sets New Bioeconomy Plan To Scale Bio-Based Industries

The European Commission has approved a new Strategic Framework for a Competitive and Sustainable EU (European Union) Bioeconomy, outlining measures to speed up the industrial roll-out of bio-based materials and technologies, including those used in packaging. The plan focuses on widening the use of renewable biological resources from land and sea to reduce fossil-based inputs, bolster supply security and support more circular, low-carbon production models. According to the Commission, the EU bioeconomy was worth up to €2.7tn (\$3.12tn) in 2023 and provided 17.1 million jobs. Bio-based plastics, fibres and chemicals are already present in sectors such as packaging, automotive components and personal care.

The framework aims to push bio-based solutions from the lab to the market by boosting innovation and investment. Planned actions include simplifying regulation, speeding up authorisations for new products and aligning EU funding with bio-based technologies. A proposed Bioeconomy Investment Deployment Group would work to assemble a pipeline of investable projects and draw in private finance.

To foster lead markets, the commission has pinpointed areas with significant potential: bio-based plastics, fibres, textiles, chemicals, fertilisers, construction materials, advanced fermentation and permanent storage of biogenic carbon.

The strategy also suggests establishing a Bio-based Europe Alliance under which European companies would collectively purchase €10bn of bio-based solutions by 2030. Ensuring sustainable biomass supply is central to the framework. The commission stresses maintaining broad self-sufficiency while keeping forests, soils, water and ecosystems within ecological thresholds. Planned incentives target farmers and foresters who protect soil health, enhance carbon storage and support sustainable biomass production. The strategy also envisages partnerships to strengthen Europe's role in global bio-based markets, limit resource risks and improve industrial resilience.



Polyplastics' launches DURAST®

Polyplastics Group, a global leader in engineering thermoplastics, has announced the introduction of DURAST® Powder technology which transforms high-performance resins into fine powders, enabling the use of diverse manufacturing processes from prototyping to 3D printing and mass production.

DURAST® Powder technology successfully micronizes high-strength, high-molecular weight resins — which were previously difficult to powder into various shapes such as spherical or fibrous forms based on application requirements. In particular, high performance resins like liquid crystal polymer (LCP) and Polyphenylene Sulfide (PPS) faced challenges with conventional grinding methods, such as particle agglomeration and reduced flowability. Using Polyplastics' proprietary technology, DURAST® Powder achieves uniform powderization with an average particle size of approximately 1~100 µm for LCP. This powder exhibits excellent powder flowability and mixing dispersibility, contributing to process stability and improved quality. Resins such as Polybutylene Terephthalate (PBT) and Polyacetal (POM) pose significant challenges in terms of micronization due to their low glass transition when processed via conventional grinding methods. In the case of PBT and POM, the glass transition temperature (the temperature above which resin softens) is low, causing the material to easily agglomerate due to friction heat during grinding. The new technique has successfully enabled the powderization of these high-molecular-weight resins. When considering the thermal and mechanical properties of these resins and selecting powderization methods suited for each, the technology produces powders with particle sizes ranging from 20µm to 100µm with a narrow particle size distribution. DURAST® Powder is suitable for additive manufacturing using 3D printers and powder sintering, enabling the production of complex shapes and high-precision parts. Additionally, it is expected to be utilized as a matrix resin for carbon fiber-reinforced thermoplastics and as an organic filler or reinforcing material.



Medipack Adopts Eastman's Recycled Copolyester for Medical film

Switzerland-based sustainable packaging solutions provider Medipack has incorporated Eastman's Eastar 6763 Renew copolyester into its new medical-grade thermoforming film. The copolyester enables the supplier to market a lower carbon alternative without altering its production lines.

Used in MEDPETG 6763 RN film, the Eastar 6763 Renew copolyester contains up to 50% certified recycled content sourced from hard to recycle waste processed via the company's molecular recycling technology. Medipack sales manager Felix Neidhart stated: "Eastman's molecular recycling technology makes it possible for us to use certified recycled content without compromising quality or safety – an essential requirement in medical packaging. "It enables the benefits of recycled content in sterile barrier packaging, which was previously not feasible. This is a major step toward circularity in medical packaging."

Eastar™ 6763 copolyester meets ISO 10993 and/or USP Class VI biocompatibility requirement. Eastar 6763 is a clear, amorphous material that can be molded and extruded with ease. Its excellent performance properties include clarity, toughness, good melt strength, no dusting, no stress whitening, good heat sealability, easy cutting and thermoforming. Eastar 6763 good melt strength offers wide processing latitude and ease in thermoforming. The production and trimming of rigid medical trays made from sheet of Eastar 6763 results in little or no dust or particulates. If contamination is found on the medical trays and cleaning is required, use a lint-free towel. Blowing the tray out with filtered, deionized, non-lubricated air is also acceptable, assuming this does not stir up dust from the surrounding area.



••• Henkel To Rollout Redesigned Pritt Glue-Stick Packs

Henkel, a producer of adhesives, sealants and functional coatings, is preparing to roll out new packaging for its Pritt glue sticks across European markets, with redesigned cardboard blisters to appear on shelves from early 2026. Current Pritt sticks contain 97% natural ingredients, including water, and the casings use up to 65% recycled plastic. The updated packs are intended to alter how shoppers interact with the product in-store and at home. The new design incorporates a viewing window on the front so that buyers can both see and touch the glue stick before purchase. Real-size product images, colour-based differentiation and a “navigation bubble” are also being introduced to help customers distinguish between variants more easily. The redesign includes visual changes as well as digital features. The refreshed blister cards will carry QR codes that connect users to online learning and crafting content on the Pritt World website. The new blisters are made from Forest Stewardship Council-certified material and printed in black and white on the reverse to limit environmental impact. The company moved the Pritt range to plastic-free cardboard blister packs in 2022, and was the first manufacturer in the consumer adhesives segment to adopt this format.

The forthcoming relaunch is intended to refine that concept and strengthen consumer trust.



• Kraiburg TPE Launches High-Performance TPE Solution For Footwear

TPE, a global manufacturer in thermoplastic elastomer (TPEs), has introduced a high-performance TPE material solution for footwear components, offering good performance, design flexibility, and scalability for footwear designers, OEM manufacturers, and brand owners. Meeting Key Requirements for Footwear Component Designs Footwear professionals prioritize performance factors such as strong multi material adhesion, efficient processability, durability, and user comfort. Aesthetic flexibility and regulatory compliance are also essential. KRAIBURG TPE's innovative compound addresses these requirements, delivering a customizable TPE for footwear brands that meets both functional and design needs in modern lacing systems.

This TPE compound provides excellent adhesion to engineering plastics such as PC, ABS, PC/ABS ASA, and SAN, ideal for co-molding and hybrid component designs. It supports insert molding and other automated processes, helping manufacturers reduce cycle times, eliminate secondary operations, and improve production efficiency. This makes it one of the ideal materials for toggle stoppers and lace locks, particularly for performance driven shoes. With a dry, smooth, soft-touch, this material improves the tactile feel and usability of components such as adjusters and lace locks. Beyond shoe string adjusters, this material also serves a variety of component needs, including toggle stoppers, lace locks, pull-tabs, and quick-lace system parts. Its adaptability allows brands to standardize on one high-performance material across product lines, balancing efficiency with innovation.



Scientists Create Biodegradable Plastic Stronger Than PET

A Kobe University group Japan has published a paper saying that they achieved the production of PDCA which is biodegradable and materials incorporating this show physical properties comparable to or even surpassing those of PET in bioreactors at concentrations more than seven-fold higher than previously reported.

The Japanese research team successfully harnessed *E. coli* to produce PDCA, a strong, biodegradable plastic alternative. The PET-alternative PDCA is biodegradable and has superior physical properties. The Kobe University team of bioengineers engineered *E. coli* bacteria to produce the compound from glucose at unprecedented levels and without byproducts opening up a realm of possibilities for the future of bioengineering. The durability of plastics is both the reason why they have become so wide-spread and why they pose environmental problems. In addition, they are mainly sourced from petroleum, making them non-renewable and contingent on geopolitics.

Kobe University bioengineer Tsutomu Tanaka says: "Most biomass-based production strategies focus on molecules consisting of carbon, oxygen and hydrogen. However, there

are highly promising compounds for high-performance plastics that include other elements such as nitrogen, but there are no efficient bioproduction strategies. And purely chemical reactions inevitably generate unwanted byproducts." PDCA, which stands for pyridinedicarboxylic acid, is such a candidate. It is biodegradable, and materials incorporating this show physical properties comparable to or even surpassing those of PET, which is widely used in containers and textiles. "Our group approached the challenge from a new angle: We aimed to harness cellular metabolism to assimilate nitrogen and build the compound from start to finish," says Tanaka. Their method avoids toxic byproducts and achieves record production levels, overcoming key roadblocks with creative fixes. Tanaka explains, "The significance of our work lies in demonstrating that metabolic reactions can be used to incorporate nitrogen without producing unwanted byproducts, thereby enabling the clean and efficient synthesis of the target compound."





A New Method Makes Teflon Recyclable



Researchers have discovered a low-energy way to recycle Teflon® by using mechanical motion and sodium metal. The process turns the notoriously durable plastic into sodium fluoride that can be reused directly in chemical manufacturing. This creates a potential circular economy for fluorine and reduces environmental harm from PFAS-related waste.

Scientists at Newcastle University and the University of Birmingham have created a clean, energy-saving process for recycling Teflon (PTFE), which is widely recognized for its role in non-stick cookware and in products that must withstand high temperatures and harsh chemicals. The team found that discarded Teflon can be broken apart and reused with only sodium metal and mechanical movement by shaking -- all at room temperature and without toxic solvents. Dr. Roly Armstrong, Lecturer in Chemistry at Newcastle University and corresponding author said: "The process we have discovered breaks the strong carbon-fluorine bonds in Teflon, converting it into sodium fluoride which is used in fluoride toothpastes and added to drinking water. the researchers used mechanochemistry, a sustainable approach in which mechanical force drives chemical reactions rather than high heat.

Inside a sealed steel container called a ball mill, small pieces of sodium metal are ground together with Teflon. This grinding causes the materials to react at room temperature, breaking the carbon-fluorine bonds within Teflon and producing harmless carbon along with sodium fluoride, a stable salt widely used in fluoride toothpaste.

The team also demonstrated that the sodium fluoride generated through this method can be used immediately, without additional purification, to synthesize other valuable fluorine-containing compounds used in pharmaceuticals, diagnostic tools, and specialty chemicals.

Associate Professor Dr. Erli Lu of the University of Birmingham added: "Fluorine is a vital element in modern life that's found in around one-third of all new medicines and in many advanced materials. Yet fluorine is traditionally obtained through energy-intensive and heavily polluting mining and chemical processes. Our method shows that we can recover it from everyday waste and reuse it directly, turning a disposal problem into a resource opportunity."

Upcoming Events - 2026

Ruplastica 2026

27th Jan - 30th Jan 2026

Crocus Expo IEC, Moscow Region, Russia

Plastiworld 2026

23rd Mar - 25th Mar 2026

Jio World Convention Centre, BKC, Mumbai

PLASTINDIA 2026

05th Feb - 10th Feb 2026

Bharat Mandapam, New Delhi, India

Expo Plasticos 2026

24th Mar - 26th Mar 2026

Expo Guadalajara, Guadalajara, Mexico

PackVision Expo 2026

19th Feb - 21st Feb 2026

Pune International Exhibition And Convention Center, Pimpri-Chinchwad, India

Plastic Packaging Printing Expo 2026

10th Apr -13th Apr 2026

Chennai Trade Centre, Chennai, India

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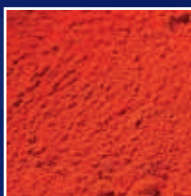


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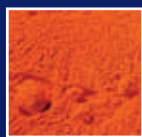
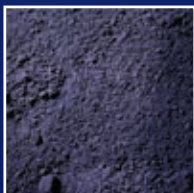




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