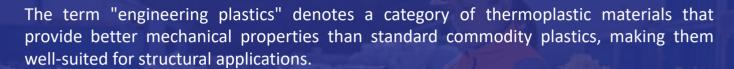


Why Engineering Plastics?

Explore The Latent Opportunity with Benori

What is Engineering Plastics











Beneficial Properties of Engineering Plastics

Low Carbon Footprint



Stronger than Typical Plastics

Customizing Engineering Plastics

Types of Engineering Plastics

Acrylonitrile Butadiene Styrene (ABS)

Polycarbonate (PC)

Polyamide (PA)

Styrene Acrylonitrile (SAN)

Polymethylmethacrylate (PMMA)

Polybutylene Terephthalate (PBT)

Polyphenylene Sulfide (PPS)

Polypropylene (PP)

A Glance at Common Products

Benchmarking and Assessing Value Chains In-depth with Benori Expertise

Type of Engineering Plastic	ಕ್ಷಿಹ್ಮಿ Typical ೯೬೩ Applications	Properties
Polycarbonate (PC)	Motorcycle helmets, optical discs, safety glasses	High impact resistance, transparency
Acrylonitrile Butadiene Styrene (ABS)	Automotive parts, electronic housings, LEGO bricks	Toughness, impact resistance
Polyamide (Nylon)	Gears, bearings, ski bindings	Strength, abrasion resistance
Polyoxymethylene (POM)	Precision parts like gears and fasteners	High stiffness, low friction
Polyethylene Terephthalate (PET)	Food and beverage containers, automotive and electronics applications	Strength, chemical resistance, good barrier properties
Polyetheretherketone (PEEK)	Aerospace, automotive, medical implants	Excellent mechanical properties, chemical resistance, high temperature stability
Polytetrafluoroethylene (PTFE)	Non-stick cookware, gaskets, seals	Non-stick properties, chemical resistance, high-temperature resistance

Form	Description	Common Uses
Pellets/Granules	Small, uniform pieces used in injection molding and extrusion processes	Manufacturing of various plastic parts and products
Sheets and Rods	Flat sheets and cylindrical rods used for machining into specific shapes	Custom parts, structural components
Films	Thin layers of plastic	Packaging, electronics, protective coverings
Powders	Fine particles used in coatings and composite materials	Surface coatings, composite manufacturing
Preforms	Intermediate shapes that can be further processed into final products	Bottles, containers, and other molded items

Engineering Plastics Market Landscape

Benori Helps with the Latest Market Trends and Drivers

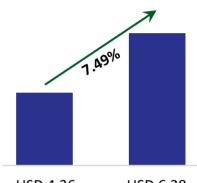




Material Demand



Circularity in India



USD 4.36 USD 6.28 billion billion 2024 2029

- Government efforts are directed towards promoting Indian Plastic Manufacturing
- Indian manufacturing is expanding rapidly and demanding more plastic components and products



Automotive Industry Growth Rate: 8.5% CAGR



Electrical and Electronics Growth

Rate: 9.5% CAGR



Packaging Growth
Rate: 7.5% CAGR



Building and Construction Growth

Rate: 7.0% CAGR



Industrial and
Machinery Growth

Rate: 7.2% CAGR

- Recycling
 Infrastructure:
 Targeting 90% plastic
 waste recycling by
 2030
- Government Policies: 30% reduction in landfill waste, aiming to phase out singleuse plastics by 2035
- Corporate Programs:
 20-50% reduction in greenhouse gas emissions
- Material Innovation:

 A significant decrease
 in microplastics is
 expected by 2030
- Import Substitution:

 Local manufacturers,
 such as Deepak
 Nitrile, are investing in local manufacturing to substitute India's dependence on imports

Unlocking Opportunities

Benori can Support in Identifying Sector-specific Demand

Frontrunners

Indian manufacturers are increasingly adopting engineering plastics to enhance performance, reduce costs, and improve efficiency, driving the rising demand in the manufacturing sector.





246 KT Automobile



228 KTElectrical & Electronics



133 KTConsumer Goods,
Packaging, Medical



65 KTConstruction

Laggards

While the following applications demand lower volumes, the technical specifications are more rigorous, and the value is higher.



Aerospace

High strengthto-weight ratio, excellent thermal stability, resistance to chemicals, and radiation



Sports Equipment

Lightweight, high impact resistance, durability, flexibility



Marine Applications

Corrosion resistance,
UV stability,
high mechanical strength

Key Stakeholders and their Challenges

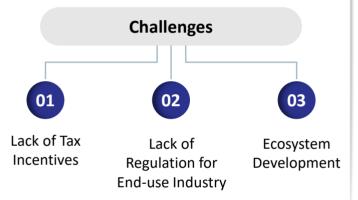
Benori Can Help Identify Challenges and Explore Best Practices

Stakeholders



Policy Makers

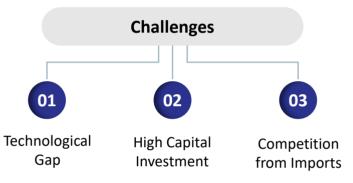
Establishing regulations, providing incentives, and helping to create an ecosystem to boost the manufacturing of engineering plastics in India





Industries

Efficient manufacturing, recycling, and distribution of polymers.





Key Players Driving Innovation in Engineering Plastics

Benori Helps You Get That Competitive Edge





bhansali engineering polymers limited

A producer of low-cost ABS in India that meets global quality standards.

A proposed expansion of ABS production capacity from 75,000 TPA to 200,000 TPA at the company's existing plants in Abu Road, Rajasthan, and Satnoor, Madhya Pradesh.



Leading producer of advanced and high-performance polymers globally and in India, specializing in polycarbonate and polyurethane.

In December 2021, the company doubled its polycarbonate compounding capacity at its Greater Noida facility



ABS & compounds is one of the leading manufacturers of polystyrene.

Phase 1 of the 70,000 TPA ABS project will be online between April and June 2025 at the Nagothane facility, with plans to add another 70,000 TPA line in Phase 2. Currently, they have a capacity of 10,000 tons.



headquartered Loxim а manufacturer in India and is а global supplier Polycarbonate and its blends across different industries.

Has a production capacity of 20,000 MTPA.



The largest manufacturer of suspension-grade Polyvinyl Chloride (PVC) with a wide range of viscosities.

Planning to construct the world's largest PTA plant with a capacity of 3 MMTPA and establish PVC and CPVC manufacturing facilities with a combined capacity of 1.5 MTPA by FY2026-27

INEOS STYROLUTION

Leading global supplier of styrenics, specializing in styrene monomer, polystyrene, ABS standard, and styrenic specialties.

Anticipates starting operations at its increased ABS and PS facilities in Dahej and Nandesari, in Gujarat, prior to 2028.

We Can Help You With...

researching on market, competition, and technology





Solutions

Market Competition Supplier Intelligence Intelligence Landscape Landscape

Technology Product

Benchmarking

Market Entry

Pricing Intelligence



Benori is a trusted partner for knowledge solutions across the globe, serving clients from a wide range of industries, including Professional Services, Financial Services, Consumer & Retail, Technology & Internet, Industrials & Manufacturing, and more. Our customized solutions strengthen the insights value chain of our clients, empowering them with key insights needed to drive intelligent decision-making and accelerate growth.

Headquartered in India, Benori is uniquely positioned to deliver multilingual research needs of global clients, powered by its digital agility, deep research capabilities and a highly experienced leadership team. Adopting a 360-degree approach, our team employs a combination of diverse methodologies, including primary research, secondary research and data modeling, and offers detailed foresight on market trends, competitive shifts, regulatory changes and technological advancements.

Powering Growth Through Knowledge



info@benoriknowledge.com



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