Your Trusted Source
for Industrial Plastics

Chennai Polyplast

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Stockists of premium industrial plastics,
delivering the right material, at the right time,
with uncompromised quality.

ABOUT US

For over 25 years of experience, Chennai Polyplast has been a dependable partner in the industrial plastics marketplace, specialising as a premium stockist of quality plastics and engineered polymer solutions. Based in Chennai, we bridge manufacturers and end-users by maintaining a wide inventory of industrial-grade plastics ready for rapid dispatch, enabling manufacturers, fabricators and engineering operations to move fast and avoid production delays.

Our role as a stockist allows us to:

- Offer broad product availability from multiple trusted brands.
- Deliver just-in-time stock so you can keep your operations lean.
- Provide material expertise and help you select the right polymer for your application.

With our deep market knowledge, regional reach, and decades of experience, Chennai Polyplast supports the manufacturing, processing and assembly industries with the plastics they need, reliably, efficiently and cost-effectively.

OUR MISSION

- To maintain a comprehensive and diverse portfolio of engineering and industrial plastics from best-in-class brands.
- To deliver accurate, timely, and efficient supply-chain support so our clients never face downtime for material shortages.
- To act as a consultative partner, helping you choose the right material grade, size and delivery format for your production.
- To build long-term relationships with manufacturers, fabricators and end-users based on reliability, integrity and responsive service.

OUR VISION

To be the preferred plastics inventory partner for the Indian industrial sector, an organisation trusted for stock availability, expert guidance and rapid supply so our customers always have the material they need when they need it.

OUR GOALS

- Expand our product catalogue continually, keeping pace with emerging polymers and new material grades.
- Keep our stock inventory fresh and regionally optimised, so lead-times are reduced and availability maximised.
- Provide value-added services such as material recommendations, sizing conversions and batch tracking.
- Position ourselves as the logistics-efficient stockist of choice for Chennai, Tamil Nadu and South India.
- Strengthen partnerships with both international polymer suppliers and local fabrication houses to maintain a win-win supply ecosystem.

INDUSTRIES WE SERVE

At Chennai Polyplast, our focus is strongly industry-centric. We serve a wide array of sectors, supplying plastics that meet the demanding requirements of each application. Among them:

Automotive & Components – plastic rods, sheets and sections for machine parts, fixtures, jigs, mould-inserts and fabrication.

Electrical & Electronics – insulating plastics, polymer sheets for PCB supports, cable ducts, panel fabrication and other critical components.

Chemical & Process Industries – materials resistant to aggressive chemicals, high temperatures, abrasion – for use in valves, fixtures, linings and supports.

FMCG & Packaging – plastic sheets, rolls and parts used in the support-frames of packaging machines, conveyors, storage systems.

Textile Manufacturing – plastics for machine parts, bearings, scrapers, guides and other wear-parts in textile production lines.

Agriculture & Horticulture – plastic components for drip-irrigation systems, greenhouse frames, component brackets, protective structures.

Construction & Infrastructure – robust sheets and rods used in form-work, scaffolding supports, structural components, sign-frames and fabrication applications.

Logistics & Warehousing – polymer boards, heavy-duty plastic sheets, rollers and guides used in racking systems, conveyor lines, loading docks.

Our extensive industry knowledge means we understand the demanding environments you operate in: high-cycle production, aggressive chemicals, heat, abrasion and precision tolerances. We make sure you get the plastics that match your operational challenge and have them ready when you need them.

POLYOXYMETHYLENE (POM) / POLYACETAL SHEETS AND RODS

Product Description

Polyacetal (POM) sheets and rods are among the strongest and stiffest of all thermoplastics. Plastic materials are characterized by good fatigue life, low moisture sensitivity, and high resistance to solvents and chemicals. Polyacetal products also contain good electrical properties. Homo-polymer and Copolymer grade of Polyacetal are available including an enhanced bearing grade material. Polyacetal -POM is a semi crystalline engineering plastic that is beneficial to engineering applications, and is suited to CNC machining. Polyacetal -POM is a semi crystalline engineering plastic that is beneficial to engineering applications, and is suited to CNC machining.

Typical Application

- Gear wheels with small modulus
- Cams
- Heavily loaded bearings and rollers
- Bearing and gears with small clearances
- Valve seats
- Snap fit assemblies
- Dimensionally stable precision parts
- Electrically insulating components

Features

- High mechanical strength
- Excellent resilience
- Excellent machinability
- Physiologically inert (most grades are suitable for food contact)

Sizes Available

- Sheet Thickness available from: 1mm to 200mm
- Sizes available in sheets: 610mm x 1200mm, 1000mm x 2000mm
- Rods Dia available from: 16mm dia to 200mm dia
- Rods length available in: 1 feet and 1 meter length

Products

Sheets | Rods | Square Rods | Profiles

Mechanical Properties

Performance & Test Conditions	Test Method	Unit	Typical Values
Notched impact strength of cantilever beam, 23°C	ASTM D256	KJ/m^2	10
Yield tensile strength, 23°C, 50mm/min	ASTM D638	Mpa	60
Elongation at break, 23°C, 50mm/min	ASTM D638	%	25
The bending strength. 23C, 2mm/min	ASTM 790	Mpa	70
Bending modulus, 23°C, 2mm/min	ASTM 790	Mpa	2500
Shore hardness D	ASTM D2240	-	85
The Density	ISO 1183	g/cm^3	1.42

Thermal Performance

Performance & Test Conditions	Test Method	Unit	Typical Values
Thermal deformation temprature(HDT) (0.45Mpa)	ISO 75	°C	120
Melting point	-	°C	170
Long term operating temperature	-	°C	100
Short-term operating temperature	-	°C	120
Thermal conductivity	DIN 52612-1	W/(K-M)	0.33
Linear expansion coefficient	ASTM D696	10-5-1/K	13

Electrical Performance

Performance & Test Conditions	Test Method	Unit	Typical Values
Dielectric strength	ASTM D150	KV-mm	19
Dielectric loss coefficient	ASTM D150	-	0.007
The volume resistance	ASTM D257	Ω.cm	10^{15}
The surface resistance	ASTM D257	Ω	10^{15}
Dielectric constant	ASTM D149	-	3.7

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Note: The technical data and values provided in this catalogue are for reference purposes only. Actual performance and specifications may vary depending on processing conditions and application requirements. The company reserves the right to modify data without prior notice.

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More information

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