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.

POLYAMIDE - PA6 SHEETS & RODS

Product Description

PA sheet and rod is a thermoplastic sheet extruded from polyamide (Nylon) PA6. It has high mechanical strength, wear resistance, easy processing, good creep resistance and mechanical shock absorption. The service temperature is-40°C 110°C.

Typical Application

- Engineering
- Textile
- Material Handling Equipments
- Railways
- Automobile
- Paper / Sugar Mills
- Bottling & Food
- Processing

Products

MOS2 Rods | OILON Rods | Square Rods | Cast Nylon | Slipper Pads

Features

- High Mechanical Strength
- Wear Resistance
- Creep Resistance
- Mechanical Shock Absorption

Sizes Available

- Thickness avaiable from: 3mm to 200mm
- Sizes available: 1mt x 2mt, 1.22mt x 2.44mt, 1.22mt x 2mt, 1.22mtr x 3mtr
- Rods Dia available from: 20mm dia to 40mm dia
- Squares available from: 20mm sq to 100mm sq
- Profiles available as per customer requirement

Mechanical Properties

Performance & Test Conditions	Test Method	Unit	Typical Values
Notched impact strength of cantilever beam, 23°C	ASTM D256	KJ/m^2	8
Yield tensile strength, 23°C, 50mm/min	ASTM D638	Mpa	75
Elongation at break, 23°C, 50mm/min	ASTM D638	%	5
The bending strength. 23C, 2mm/min	ASTM 790	Mpa	90
Bending modulus, 23°C, 2mm/min	ASTM 790	Mpa	2200
Shore hardness D	ASTMD2240	-	80
The Density	ISO 1183	g/cm^3	1.13

Thermal Performance

Performance & Test Conditions	Test Method	Unit	Typical Values
Thermal deformation temprature (HDT) (0.45Mpa)	ISO 75	°C	70
Melting point	-	°C	220
Long term operating temperature	-	°C	80
Short-term operating temperature	-	°C	110
Thermal conductivity	DIN 52612-1	W/(K-M)	0.23
Linear expansion coefficient	ASTM D696	10-5-1/K	8

Electrical Performance

Performance & Test Conditions	Test Method	Unit	Typical Values
Dielectric strength	ASTM D150	KV-mm	25
Dielectric loss coefficient	ASTM D150	-	0.032
The volume resistance	ASTM D257	Ω.cm	10^{15}
The surface resistance	ASTM D257	Ω	10^{15}
Dielectric constant	ASTM D149	-	4.2

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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

Chennai PolyPlast

+91 72005 67899

chennaipolyplast.com
chennaipolyplast@gmail.com

No: 4, Meenambedu Road, Ambattur Industrial Estate, Chennai - 600098