

Your Trusted Source
for Industrial Plastics



**Chennai
Polyplast**



Chennai Polyplast

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.

PEEK - POLYETHERKETONE SHEETS AND RODS



Product Description

PEEK - Polyetheretherketone
Semi - crystalline thermoplastic

Properties

- Excellent dimensional stability
- Flame retardant and self-extinguishing
- Very high resistance to high-energy radiation
- Very good sliding properties
- High abrasion resistance
- Optimised balance of stiffness, tensile strength and impact strength
- Low creep tendency
- Good machinability
- Good thermoformability
- Good adhesive properties
- Good weldability
- High dimensional stability under heat
- Very high continuous service temperature
- Low coefficient of thermal expansion
- Good electrical insulating properties over a broad temperature range

Typical Areas of Application

- Components need to be exposed under high temperature, mechanical load, X-ray or gamma ray.
- Antenna electronics, transportation, medical technology, aviation and chemical engineering, such as electrical insulators and housing, electric wire and cable insulation, rotor spider, friction disc and sealing parts, shock absorber, analytical equipment components, dialysis equipment components, valve lining, water pump impeller.

General

General Properties	Test Method	Unit	Value
Density	DIN EN ISO 1183-1	g/cm ³	1,31
Water absorption	DIN EN ISO 62	%	0,2
Flammability (Thickness 3 mm/ 6 mm)	UL 94		V0N0

Mechanical Properties

Performance & Test Conditions	Test Method	Unit	Typical Values
Yield stress	DIN EN ISO 527	MPa	110
Elongation at break	DIN EN ISO 527	%	20
Tensile modulus of elasticity	DIN EN ISO 527	MPa	4000
Shore hardness	DIN EN ISO 868	scale D	88

Thermal Performance

Performance & Test Conditions	Test Method	Unit	Typical Values
Crystalline grain melting range	ISO 11357-3	°C	343
Thermal conductivity	DIN 52612-1	W/(m*k)	0,25
Thermal capacity	DIN 52612	kJ/(kg*k)	1,34
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ K	50
Service temperature, long term	Average	°C	-60. 250
Service temperature, short term (max.)	Average	°C	310
Vicat softening temperature	DIN EN ISO 75, Verf. A,HDT	°C	152

Electrical Performance

Performance & Test Conditions	Test Method	Unit	Typical Values
Dielectric constant	IEC 60250	-	3,2
Dielectric dissipation factor (50 HZ)	IEC 60250	-	0,001
Volume resistivity	IEC 60093	Ω*cm	4,9*10 ¹⁶
Surface resistivity	IEC 60093	Ω	10 ¹⁸
Dielectric strength	IEC 60243	kV/mm	20

Specification

Sheets	Thickness : 2mm to 100mm	Size : 1220mm to 620mm
Round rod	Thickness : 6mm dia to 200mm dia	Size : upto 1000mm long

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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