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.

Chennai PolyPlast

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.

PHENOLIC FABRIC SHEETS & RODS

Product Description

Phenolic Fabric Sheets & Rods are high-strength, wear-resistant, and electrically insulating composite materials made by impregnating layers of cotton fabric with phenolic resin under high pressure and temperature.

This results in a dense, rigid, and durable material that combines:

- The strength and wear resistance of cotton fabric
- The chemical, electrical, and thermal resistance of phenolic resin

They are widely used in industries requiring high mechanical strength, impact resistance, low friction, and long-term durability.

Main Benefits

- High mechanical strength (tensile, compressive & flexural)
- Excellent wear & abrasion resistance
- Low friction & self-lubricating properties
- Electrical insulation (stable under humidity & heat)
- Thermal resistance (continuous: 120–140°C, short-term: 160°C)
- Dimensional stability under load
- Chemical resistance to oils, fuels, solvents, weak acids & alkalis
- Lightweight alternative to metals
- Excellent machinability into precision parts

Typical Application

Industrial & Mechanical

- Bearings, bushings, thrust washers
- Gears, sprockets, pulleys
- Wear plates, rollers, cams
- Clutch & brake components

General Engineering

- Machine tool guides
- Hydraulic & pneumatic sealing parts
- Support rings and spacers

Electrical & Electronics

- Insulating components
- Transformer & motor slot wedges
- Terminal boards & switchgear

Automotive & Transport

- Brake linings & clutch plates
- Shock & vibration damping parts

Product Characteristics

Property	Description
Density	1.35 – 1.45 g/cm³
Tensile Strength	100 – 150 MPa
Flexural Strength	160 – 250 MPa
Compressive Strength	250 – 300 MPa
Impact Strength	8 – 15 kJ/m²
Heat Resistance	120 – 140 °C
Electrical Breakdown	10 – 15 kV/mm

Specification

Grade	Description	Applications
Fine Weave Cotton Phenolic	Low friction, high precision	Bearings, bushings, gears
Medium Weave Cotton Phenolic	Balance of strength & machinability	Gears, rollers, pulleys
Coarse Weave Cotton Phenolic	Heavy-duty load bearing	Cranes, press tools, Construction machinery

Available in

Sheets (Laminates)

- Thickness: 1 mm – 100 mm (custom on request)
- Standard Sizes: 1000×1000 mm / 1220×1220 mm / 2000×1000 mm

Rods

- Diameter: 10 mm – 300 mm
- Length: 1000 mm (custom available)

Machined Parts

- Bushings, bearings, CNC-turned profiles

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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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