

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.

BAKELITE SHEETS



Product Description

Bakelite (Phenolic Laminates) is one of the earliest thermosetting plastics ever invented. It is manufactured by impregnating layers of paper or fabric with phenolic resin and curing them under heat and high pressure.

The result is a rigid, tough, and durable laminate with:

- Excellent electrical insulation
- Good heat resistance
- Strong mechanical properties

Today, Bakelite Sheets & Rods are widely used in **electrical, electronic, industrial, and consumer applications.**

Main Benefits

- Excellent electrical insulation
- Heat resistance up to 130–150°C
- Strong compressive & flexural strength
- Lightweight and rigid
- Easy machinability (cutting, drilling, turning)
- Moisture & chemical resistance (oils, mild acids & alkalis)
- Economical compared to engineering plastics

Typical Application

Electrical & Electronics

- Switchgear panels, insulation barriers
- Terminal boards, fuse bases, connector housings
- Transformer, motor & generator insulation parts
- PCB base plates & protective covers

Consumer Applications

- Cooker handles & appliance panels
- Decorative laminates (historical use)

Industrial Uses

- Machine parts requiring insulation & strength
- Gaskets, spacers, support blocks
- Jigs & fixtures in manufacturing lines
- Tool & appliance handles, knobs

Product Characteristics

Test Method	Unit	Typical Values
Vertical Bending Strength	MPa	≥100
Parallel Impact Strength	KJ/M ²	-
Grain Strength	N	≥2800
Vertical Electrical Strength	Kv/mm	5.7 - 12.2
Parallel Layer Breakdown Voltage	KV	≥15
Dielectric Loss Factor 1MHz	Tg8	-
Parallel Layer Insulation Resistance Normal Behavior	Ω	≥1.0x10 ⁹
Parallel Layer Insulation Resistance After Tide	Ω	≥1.0x10 ⁷
Water Suction Column	mg	190 - 480
Heat Resistance Grade	B	130°C

Specification

Grade	Description	Applications
Paper-Based Bakelite (Phenolic Paper)	Low-cost insulation	Panels, pcb base plates, terminal boards
Fabric-Based Bakelite (Phenolic Fabric)	Higher mechanical strength	Gears, bearing cages, wear pads
Carbon / Graphite Filled	Enhanced wear & lubrication	Heavy-duty sliding & mechanical parts

Available in

Sheets (Laminates)

- Thickness: 0.5 mm – 100 mm
- Standard Sizes: 1000×1000 mm / 1220×1220 mm / 2000×1000 mm

Rods

- Diameter: 10 mm – 150 mm
- Length: 1000 mm

Custom Machined Parts

- Washers, insulating blocks, spacers, terminal plates

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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