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.

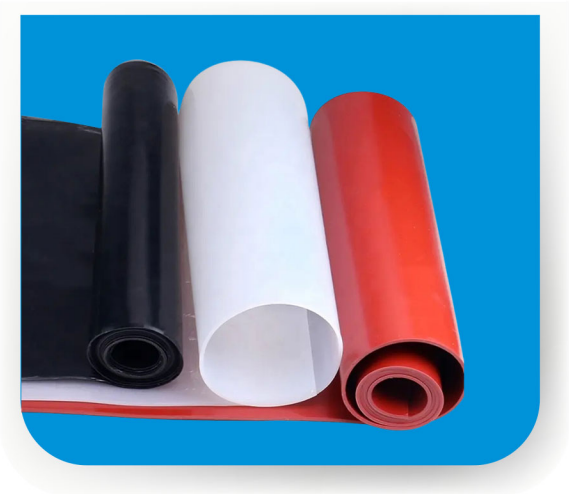
Agriculture & Horticulture – plastic components for drip-irrigation systems, greenhouse frames, component brackets, protective structures.

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.

SILICON RUBBER



Product Description

Silicone Rubber is a synthetic elastomer made from a combination of silicon, oxygen, carbon, and hydrogen. Unlike conventional organic rubbers, silicone rubber has a siloxane backbone (Si–O–Si), which gives it exceptional thermal stability, flexibility, and resistance to aging. It remains elastic and functional over a very wide temperature range, making it ideal for industrial, food, pharmaceutical, medical, and electrical applications.

Key Properties & Advantages

- Temperature Resistance
- Flexibility & Elasticity
- Weather, UV & Ozone Resistance
- Chemical Resistance
- Food, Medical & Pharma Safe
- Electrical Insulation
- Excellent dielectric strength
- Stable electrical properties over wide temperature ranges

Applications of Silicone Rubber

- High-Temperature Applications
- Food & Pharmaceutical
- Electrical & Electronics
- Industrial Uses
- Medical

Why Choose Silicone Rubber?

- Best choice for extreme temperature environments
- Excellent for food, pharma, and medical applications
- Long service life with minimal aging
- Superior flexibility compared to conventional rubbers

Tabulation

Properties	Value	Standard
Density	1.20 g/cm^3	ASTM D297
Hardness	60 + 5 Shore A	ASTM D2240
Tensile Strength (Min)	60 kg/cm^2	ASTM D412
Elongation @ Break (Min)	250%	ASTM D412
Compression Set (70°C, 24 hrs)	30%	ASTM D395
Tear Strength	25 kg/cm	ASTM D624
Heat Ageing (72 hrs @ 100°C)	± 5% (TS & Elongation)	ASTM D573
Chemical Resistance	Excellent	ASTM D1149
Temperature Range	-70°C to +250°C	-

Available in

Colours

Natural White & Red

Thickness

1mm to 12mm

Size Available

Width 1000 and 1200mm, Std

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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