

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.

PTFE PRODUCTS



PTFE Sheet

High-temperature, chemical-resistant, non-stick material used for lining, insulation, sealing, and anti-friction applications.

PTFE Rod

Low-friction, corrosion-resistant rods used for machining components like bearings, insulators, piston rings, and structural parts.

PTFE Bushes

Self-lubricating, wear-resistant bushes used in automotive, machinery, pumps, and engineering applications requiring maintenance-free motion.

PTFE Tubing

Chemically inert, high-temperature tubing used for fluid transfer, medical lines, wire insulation, and laboratory applications.

Features

- Withstand very high and low temperatures
- Excellent chemical and corrosion resistance
- Very low friction and non-stick behavior
- Good electrical insulation
- Weather, moisture, and UV resistance
- Non-toxic and suitable for sensitive environments

Applications

- Chemical handling equipment
- Pumps, valves, gaskets, seals
- Electrical and electronic insulation
- Food, pharma, and medical use
- Automotive and engineering components
- High-temperature liners and conveyor systems

Tabulation

Product Name	Thickness	Length / Width Size
PTFE Moulded Sheets	12 mm to 100 mm	300 mm to 2000 mm
PTFE Skived Sheets	0.5 mm to 10 mm	300 mm to 2000 mm
PTFE Rods	4 mm to 150 mm	2000 mm Length
PTFE Bushes	6 mm ID up to 300 mm OD	As per the standard

Note: Custom sizes can be manufactured as per customer requirements.

S.N	Property	Unit	Test Method	Virgin PTFE	25% Glass Filled PTFE	15% Glass + 5% MoS ₂ Filled PTFE	25% Carbon Filled PTFE	15% Graphite Filled PTFE	40% Bronze Filled PTFE
1	Density	g/cc	ASTM D-792	2.1-2.2	2.2-2.25	2.24-2.25	2.10-2.20	2.14-2.18	3.1-3.2
2	Tensile Strength	kgf/cm ²	ASTM D-638	210-250	125-220	150-220	120-155	150-200	120-150
3	Elongation at Break	%	ASTM D-638	250-400	200-300	220-320	100-150	175-255	100-175
4	Compressive Strength	kgf/cm ²	ASTM D-695	40-5	75-85	65-75	75-85	65-75	85-100
5	Compressive Modulus	kgf/cm ²	ASTM D-695	4000	7000	6000	8400	8000	8500
6A	Deformation (2 hrs @23°C, 13kg/cm ²)	%	ASTM D-621	12	9	10	5	6	5
6B	Deformation (24 hrs @ 23°C, 13kg/cm ²)	%	ASTM D-621	15	11	12	7	8	6
6C	Permanent Deformation	%	ASTM D-621	8	7	7.5	3.5	4.5	3
6D	Deformation (2 hrs @ 150°C, 13kg/cm ²)	%	ASTM D-621	55	50	50	39	43	42
7	Flexural Strength	kgf/cm ²	ASTM D-790	57	42	50	95	60	85
8	Flexural Modulus	kgf/cm ²	ASTM D-790	2500-3500	16700	20000	19000	11000	14000
9A	Impact Strength @ -20°C	cm-kgf/cm	ASTM D-256	9	9.5	8	8	10	11
9B	Impact Strength @ +20°C	cm-kgf/cm	ASTM D-256	15	11	12	10	14	8
10	Hardness	Shore D	ASTM D-785	50-55	60-65	62-68	60-65	60-65	70-75
11A	Coefficient of Friction (Dynamic)	-	-	0.04-0.06	0.50-0.54	0.15-0.20	0.12-0.17	0.11-0.16	0.13-0.15
11B	Coefficient of Friction (Static)	-	-	0.05-0.08	0.11-0.13	0.08-0.10	0.09-0.11	0.08-0.10	0.08-0.10
12	Water Absorption	%	ASTM D-570	0	0.03	0.05	0	0	0
13	Continuous Service Temperature	°C	-	-250 to +260	-250 to +260	-250 to +260	-250 to +260	-250 to +260	-250 to +260
14	Thermal Conductivity	10-4	Cenco Fitch	6	9	9	13	14	17
15A	Linear Thermal Expansion (30-150°C)	cal/cm·sec°C	ASTM D-696	1.5	1.5	0.7	1.0	1.3	0.95
15B	Linear Thermal Expansion (30-200°C)	%	ASTM D-696	2.4	2.3	2.2	1.9	2.0	1.95
15C	Linear Thermal Expansion (30-250°C)	%	ASTM D-696	3.4	3.6	3.2	2.7	2.5	2.25
16	Dielectric Strength	kV/mm	ASTM D-149	24	12	16	2	2	Conductive
17	Volume Resistivity	ohm-cm	ASTM D-257	10 ¹⁸	10 ¹²	10 ¹²	10 ⁴	10 ⁸	10 ⁷
18	Surface Resistivity	ohm	ASTM D-257	10 ¹⁵	10 ¹²	10 ¹²	10 ²	10 ⁶	10 ⁵

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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