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.

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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.

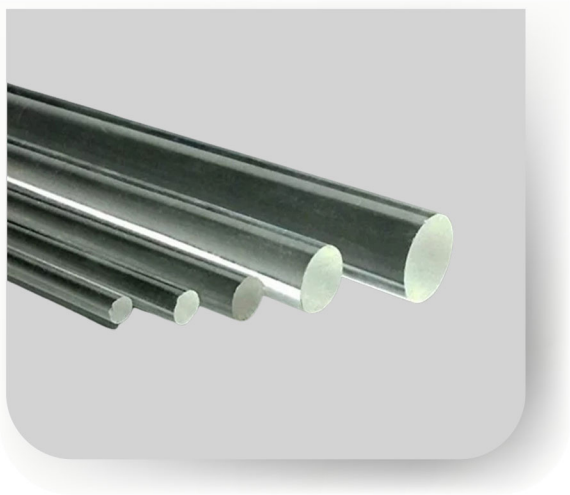
Agriculture & Horticulture – plastic components for drip-irrigation systems, greenhouse frames, component brackets, protective structures.

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.

PMMA ACRYLIC ROD



Product Description

PMMA Acrylic Rods are solid cylindrical bars manufactured from PMMA (Polymethyl Methacrylate). They are well known for their crystal-clear transparency, excellent surface finish, weather resistance, and ease of machining. PMMA Acrylic rods are widely used as a lightweight, shatter-resistant alternative to glass and metals in industrial, commercial, decorative, and engineering applications.

Key Features & Benefits

- Excellent Optical Clarity – Up to 92–93% light transmission
- Lightweight – About 50% lighter than glass
- High Surface Finish – Glossy, polished appearance
- Good Impact Resistance – Stronger than glass
- UV & Weather Resistant – Suitable for indoor & outdoor use
- Easy to Machine & Fabricate – Can be cut, drilled, turned, polished, and bonded
- Electrical Insulating Properties – Good dielectric strength
- Non-Toxic & Odorless – Safe for general use

- PMMA Acrylic rod
- Size 6mm to 200mm dia
- Length 2000mm long standard

Applications of PMMA Acrylic Rods

- Display & Decorative
- Signage, Display supports & fixtures
- Furniture components
- Interior décor & art installations
- Industrial & Engineering
- Insulating spacers & supports
- Protective guards & covers
- Machined components & knobs
- LED Lighting and elements
- Lamp bodies & diffusers
- Medical & Laboratory
- Visual components
- Protective enclosures

Tabulation

Properties	Value	Unit	Standard
Density	1.19	g/cm^3	ASTM D792
Water Absorption	0.25	%	ASTM D570
Tensile Strength	74	N/mm^2	ASTM D638
Flexural Strength	120	N/mm^2	ASTM D790
Elongation at Break	3	%	ASTM D638
Impact Strength (Izod, Notched)	2	kJ/m^2	ASTM D256
Rockwell Hardness	M100	-	ASTM D785
Deflection Temperature (1.8 N/mm^2)	105	°C	ASTM D648
Softening Point	≥115	°C	ASTM D1525
Light Transmittance	92	%	ASTM D1003
Dielectric Strength	20	kV/mm	ASTM D149
Volume Resistivity	$> 10^{15}$	Ohm cm	ASTM D257

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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