

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.

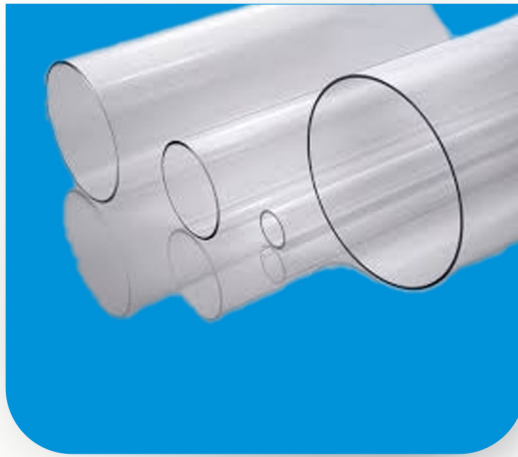
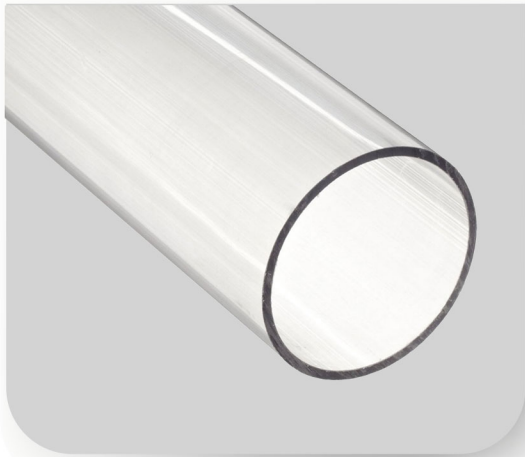
Agriculture & Horticulture – plastic components for drip-irrigation systems, greenhouse frames, component brackets, protective structures.

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.

PMMA ACRYLIC TUBE



Product Description

Acrylic tubes are hollow cylindrical products made from polymethyl methacrylate (PMMA) — a type of transparent thermoplastic often used as a lightweight and shatter-resistant alternative to glass. Our Acrylic Tubes are precision-engineered from high-quality PMMA (Polymethyl Methacrylate), offering superior transparency, weather resistance, and ease of fabrication. Ideal for a wide range of industrial, commercial, and decorative applications.

Types of Acrylic Tubes

Clear Acrylic Tube – Maximum transparency; widely used for display and visual applications.

Colored Acrylic Tube – Available in various tints or solid colors.

Frosted Acrylic Tube – Matte or diffused finish for softer light transmission.

Extruded vs Cast Acrylic Tubes:

Extruded: Cheaper, consistent diameter, good for general use.

Cast: Higher optical clarity, better strength, suitable for machining.

Key Features

- Transparency
Up to 93% light transmission (higher than glass)
- Durability
Impact-resistant and weather-resistant
- Weight
Less than half the weight of glass
- Temperature Resistance
Typically usable from -40°C to +80°C
- Chemical Resistance
Resistant to many acids and alkalis
- Machinability
Easy to cut, drill, polish, bend (with heat)

Applications

- Industry : Application Examples
- Construction : Handrails, protective covers, lighting
- Retail & Display : Product stands, displays, signs
- Aquariums : Water tanks, viewing tubes
- Medical : Equipment covers, sample tubes
- Lighting : LED diffusers, lamp housings
- Automotive : Custom interior & lighting modifications
- DIY/Hobby : Crafts, models, decorative projects

Fabrication Methods

- Cutting : Saw or laser
- Drilling : Low-speed drill with plastic bit
- Polishing : Flame polishing, buffing, or sanding
- Bending : With heat (e.g., heat gun or oven)
- Forming : With heat (e.g., heat gun or oven)

Precaution

- Avoid exposure to strong solvents like acetone.
- Can scratch easily; handle with care or use protective coatings.
- Not suitable for high-pressure or high-temperature applications (use polycarbonate for that).

Common Sizes & Dimensions

Acrylic tubes are available in various outer diameters (OD), inner diameters (ID), and wall thicknesses, ranging from small tubes (e.g., 5 mm OD) to large ones (over 300 mm OD). Custom sizes are also available.

Common Sizes & Dimensions

Standard Specification	Test Method		
Degree of purity	min. 99,90 %	M2-7	GC
Acid content	max. 0,0050 %	M4	Acid-base titr. Calculated as GMAA
Water content	max. 0,050 %	M3	According to Karl Fischer
Color	max. 5	M5	Pt-Co
Stabilization*	on request	M1	HPLC

Physical Data	
Molecular weight	100,1g/mol
Density	0.94 g/cm ³ at 20 °C
Refractive index	1.415 at 20 °C
Boiling point	100,3 °C at 1013 hPa
Vapor pressure	37 hPa at 20 °C
Heat of vaporization	36.0 kJ/mol
Solidification point	- 48 °C
Heat of polymerization	55.6 kJ/mol
Viscosity	0.53 mPa.s (dynamic)
Ignition temperature	435 °C (DIN 51794)
Flash point	10 °C (DIN 51755)
Explosion limits in air	2.1 - 12.5 Vol. %
Solubility in water	15,3 g/l at 20 °C

Registration	
REACH	registered
Included in TSCA	+

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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