

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.

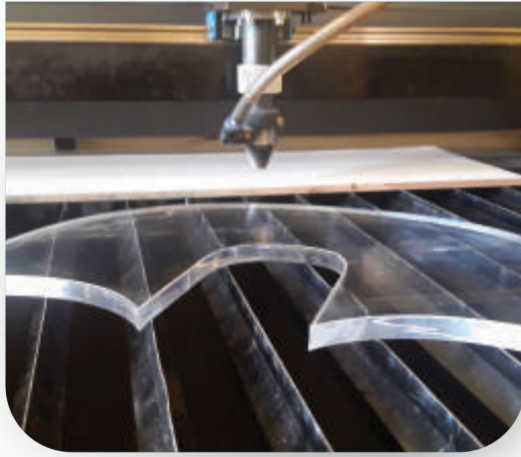
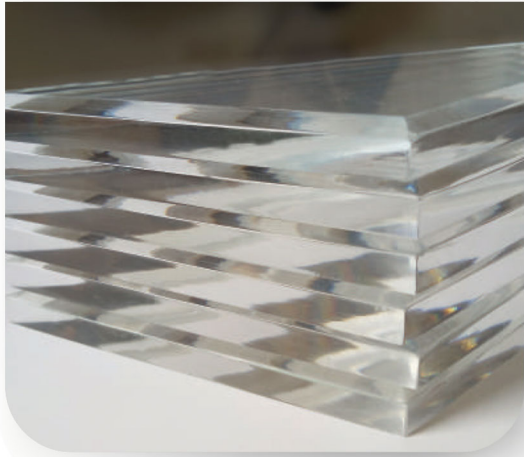
Agriculture & Horticulture – plastic components for drip-irrigation systems, greenhouse frames, component brackets, protective structures.

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 SHEET



Product Description

PMMA Acrylic Sheet by Chennai Polyplast, is a thermoplastic sheet that is an alternative of Polycarbonate when extreme strength is not compulsory.

It is often preferred because of its moderate properties, easy handling, fabrication and other processing. PMMA Acrylic Sheet has better scratch resistance properties than other conventional sheet.

PMMA Acrylic Sheet manufactured by modified grade MMA resin which has higher scratch resistance with best impact resistance, weather resistance and thermal resistance. As per its better weather and UV resistance, it's also perfect for outdoor application. It has transmittance up to 92% of visible light and give best reflection from each of its surface. Our moderate extrusion technology process maintains product quality like transparency, color, accurate thickness and other object.

PMMA Acrylic Sheet can be glue easily by using many different organic based adhesive. Being transparent, Color and durable, it is a multifaceted material and used in various segment and applications such as sound barrier walls, Bathtubs, Security barrier, Shatter resistance panels for building window, Furniture, Lighting, Sign-Display, advertising and many other.

PMMA Acrylic Sheet is odorless that can be easily thermoform, blow, bend, print and laser without any excruciation.

Applications

- Aquarium
- Cosmetics
- Exhibition booths
- Museum casings
- Gift Article & Trophy
- Noise-reducing walls
- Signage & advertising
- Interior & Exterior lighting

Key Features

- Lightweight
- Economical
- Hard wearing
- Optical clarity
- Weather resistant
- Easy to bend & shape
- Suitable for vacuum forming
- Excellent thickness tolerance
- High gloss surface on both sides

General

| General Properties | Condition | Test Method | Unit | Values |
|------------------------|---------------------|-------------|--------------------|-----------|
| Density | | ISO 1183 | gr/cm ³ | 1,19 |
| Water Absorbtion (24h) | 23°C / 50% RH (24h) | ISO 62 | % | 0,3 |
| Moulding Shrinkage | | ASTM D 955 | % | 0, 2-0, 6 |

Mechanical Properties

| General Properties | Condition | Test Method | Unit | Values |
|-------------------------------------|-----------|-------------|-----------------------|--------|
| Tensile Strength at Break | 23°C | ISO 527-2 | MPa | 83 |
| Elongation at break | 23°C | ISO 527-2 | % | 7 |
| Tensile Modulus | 23°C | ISO 527-2 | MPa | 3200 |
| Flexural Strength at Break | 23°C | ISO 178 | MPa | 120 |
| Flexural Modulus | 23°C | ISO 178 | MPa | 3300 |
| Charpy Impact Strength with Notched | 23°C | ISO 179-1eA | kJ/m ² | 2 |
| Izod Impact Strength | | ISO 178 | kJ/m ² , 1 | |
| Rockwell Hardness M Scale | | ISO 2039-2 | M-scale92 | |

Thermal Performance

| General Properties | Condition | Test Method | Unit | Values |
|-----------------------------------|-----------|-------------|---------|--------|
| Vicat Temperature | 50 N | ISO 306 | °C | 105 |
| Deflection temperature under load | 1,8 MPa | ISO 75 | °C | 100 |
| Coefficient of linear expansion | | ISO 11359-2 | mm/m °C | 0,07 |

Electrical Performance

| General Properties | Condition | Test Method | Unit | Values |
|-----------------------|-----------|-------------|-------|--------|
| Dielectrical Strength | | DIN53481 | kV/mm | 20 |
| Dielectric Constantto | 1 KHz | DIN 53843 | | 3, 1 |

Available in

Colours

Clear, 0-40 Colours,
White & Black
(Custom colours are
available)

Thickness

1mm to 60mm

Width

Upto 1220mm

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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