

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.

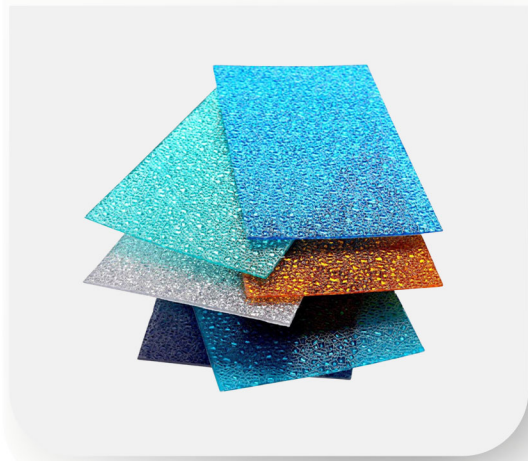
Agriculture & Horticulture – plastic components for drip-irrigation systems, greenhouse frames, component brackets, protective structures.

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.

POLYCARBONATE SOLID SHEET & ROLL



Product Description

Solid Polycarbonate Sheets offer a wide range of properties that make them superior to other thermoplastic sheets or products and the material of choice for high performance roofing applications, glazing and fabricated solutions. **Solid Polycarbonate Sheets** possess excellent impact resistance, transparency and temperature resistance to make it a versatile glazing material for Industrial & commercial applications. These sheets also have excellent fire-retardant properties and are classified a self-extinguishing material. It's very high impact resistance strength ensures that **Solid Polycarbonate Sheets** can be widely used for safety glazings and related applications. They can also be deployed in applications where they are subjected to high levels of vibrations and accidental impact. These include Noise Barriers along Highways, visual & noise barriers on bridges and on security barriers. **Our Solid Polycarbonate Sheets are 250 times stronger than glass and 25 times more impact resistant than acrylic sheets.**

Solid Polycarbonate Sheets can also be engineered to suit food grade applications and enhanced fire-retardant property in case of specific applications or requirements. **Embossed Polycarbonate Sheets:** These sheets offer all the advantages of solid polycarbonate sheets with the additional feature of excellent light diffusion, making them the ideal choice for skylights, profiled sheets used in tandem with metal, asbestos cement, GI and other profiled roofing sheets for skylight applications and day-light cladding applications. **Diamond Polycarbonate Sheets:** With a diamond like surface texture, these sheets are also manufactured in attractive colours to suit decorative applications, residential roofing and glazing structure coverings. These sheets are available in clear, bronze, blue, lake blue and green colours as a standard. Special colours can be developed and manufactured in case of large quantity requirements. Chennai Polyplast Solid & Embossed Polycarbonate Sheets are available in roll form in lower thicknesses and are extensively used for manufacturing profiled sheets and thermoformed / vacuum formed products.

Features

- Extreme impact strength
- High transparency
- Easy installation
- Sound insulation
- Weather & UV- resistance
- Virtually unbreakable
- Low moisture absorption
- Easily machined
- Easily fabricate
- Easily thermoform
- Half the weight of glass
- ECO friendly material

Related Industries

- Building & Construction
- Printing & Fabrication
- Thermoforming & Machining
- Defence & Security Glazing
- Aerospace & Rail
- Signage & Advertising
- Mass Transportation & Automotive
- Lighting

General

General Properties	Test Method	Unit	Typical Values
Density	ISO 1183	g/cm ³	1.2
Light transmission (Depending on thickness)	ASTM D 1003	%	81 - 90
Refractive index	ISO 489	-	1,585

Mechanical Properties

General Properties	Test Method	Unit	Typical Values
Tensile Strength at yield	ISO 527-2	Mpa	60
Tensile Modulus	ISO 527-2	Mpa	2300
Elongation at break	ISO 527-2	%	>100
Elongation at yield	-	%	6
Flexural Modulus	ISO 178	Mpa	2330
Charpy Un-notched	ISO 179	kJ/m ²	Not break
Izod Impact notched	ISO 180a	kJ/m ²	>65

Thermal Performance

General Properties	Test Method	Unit	Typical Values
Temp of deflection (HDT) Under load of 1.8MPa	ISO 75-1	°C	130
Vicat softening temp (50°C/h 50N)	ISO 306	°C	144
Thermal conductivity	DIN52612	W/m x °C	0.2
Coefficient of linear thermal expansion 0-50°C	ISO 11359	mm/(m x 1/°C)	0.070
GWFI (Glow-Wire Flammability index)	IEC60695-2	°C	900

Electrical Performance

General Properties	Test Method	Unit	Typical Values
Volume Resistivity	IES 60093	Ω x cm	3 × 10 ¹⁴
Surface Resistivity, dry	IEC 60093	Ω	6 × 10 ¹⁵
Dissipation Factor 1 Mhz	IEC 60250	-	0.009
Dissipation Factor 100Hz	IEC 60250	-	0.0006

Available in

Colours

Clear, Opal
Greenish Blue
Bronze,
Green, Blue,
Grey

Dimensions

Width: up to 2100mm
Thickness: 1mm to 20mm

Type

Options: Embossed texture, Diamond texture, single sided UV protection & Both sided UV Protection

Specials: Special transparent, translucent & opaque options are available on request

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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