

Poly-Mac GP Sheets

Solid General Purpose Polycarbonate Sheet

Poly-Mac GP sheets are clear, polished, UV stabilized clear-transparent polycarbonate sheets. They offer extreme impact strength that exceeds the physical properties of other products of their class. Poly-Mac sheets resist temperature of -100C to 120C, exhibiting high optical clarity and have good fire rating.

Poly-Mac GP is clear transparent sheet with high light transmission. It is also available in matt finish, special surface textures, translucent with good light diffusion in combination with white colour.

This GP sheets are offered with a five year limited product warranty against breakage and no any warranty if exposed to direct sunlight.

Available Sizes are: available in thicknesses of 1 – 20 mm and in the following sizes; other sizes, transparent colours and sheet thicknesses on request.

Colours: Clear, White, Bronze, Grey, Blue, Green

Sizes Std: 2050mm X 1250mm, 3050mm X 2050mm

Application: ideal for machine guards, lighting fixtures, signs, wall and door partitions, thermoformed products

Technical data

Property	Test conditions	Typical Values	Unit	Test Method
Physical				
Density		1.2	g/cm ³	ISO 1183-1
Moisture absorption	23°C /50%RH	0.15	%	ISO 62-4
Refractive Index	20°C	1.58	-	ISO 489
Mechanical				
Tensile stress at yield		>60	MPa	ISO 527-2/1B/50
Elongation at Yield		6	%	ISO 527-2/1B/50
Tensile Strength		>60	MPa	ISO 527-2/1B/50
Elongation at break		>70	%	ISO 527-2/1B/50
Elastic Modulus		2400	MPa	ISO 527-2/1B/1
Limiting Flexural stress		Approx.90	MPa	ISO 178
Impact Strength Charpy	Unnotched	No break	kJ/m ²	ISO 179/1fU
Impact Strength Charpy	Notched	Approx.11	kJ/m ²	ISO 179/1eA
Impact Strength Izod	Unnotched	Approx.10	kJ/m ²	ISO 180/1A
Impact Strength Izod	Notched	Approx.70	kJ/m ²	ISO 180/4A
Thermal				
Vicat Softening temp	Method B50	148	°C	ISO 306
Thermal conductivity		0.2	W/m K	DIN 52612
Coeff. of liner thermal expansion		0.065	Mm/m °C	DIN 53752-A
HDT under load	1.80 Mpa	127	°C	ISO 75-2
	0.45 Mpa	139	°C	ISO 75-2
Electrical				
Dielectric Strength		35	kV/mm	IEC 60243-1
Volume resistivity		10 ¹⁶	Ohm-cm	IEC 60093
Surface resistivity		10 ¹⁴	Ohm	IEC 60093
Dielectric constant	At 10 ³ Hz	3.1		IEC 60250
	At 10 ⁶ Hz	3		IEC 60250
Dissipation factor	At 10 ³ Hz	0.0005		IEC 60250
	At 10 ⁶ Hz	0.009		IEC 60250

*The mechanical properties were measured on sheets of 4 mm or 3 mm thickness.

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Product data sheet 2018

Poly-Mac GP Solid Sheet

SOLID POLYCARBONATE SHEET

Silent, Safe, Sustainable PC Sheets – Make in India

Advantages:

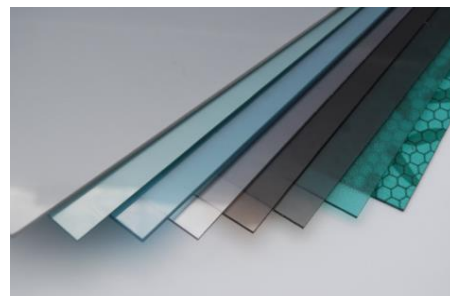
Extreme Impact strength

Good fire rating

Thermoformable

Locally manufactured

ISI approved



STAR PLAST

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