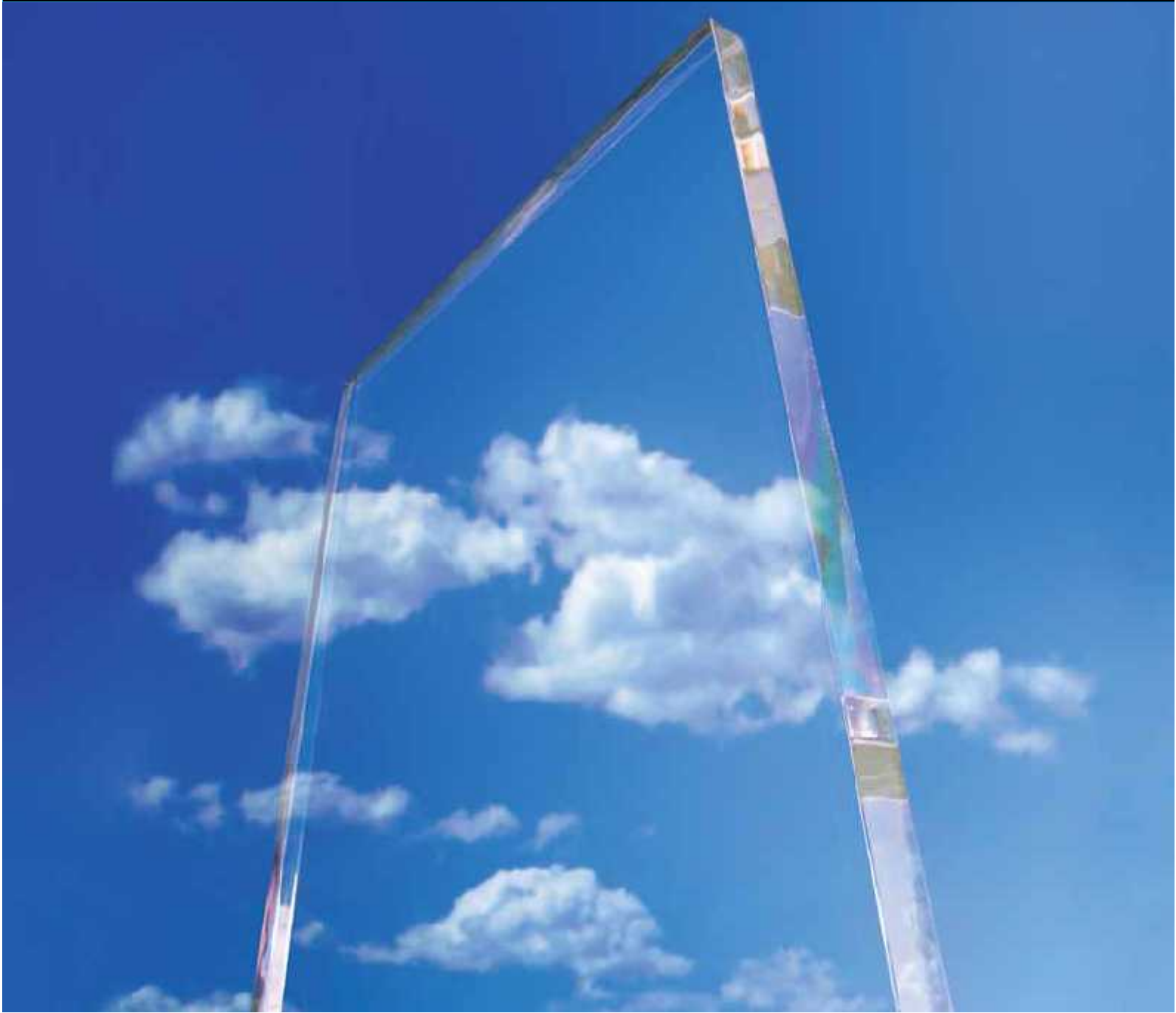


ARCHITECTURAL ACRYLIC & POLYCARBONATE GLAZING

OPTICAL GRADE HEAVY GAUGE SHEET



ARCHITECTURAL ACRYLIC & POLYCARBONATE GLAZING

All plastics can offer optical grade heavy gauge sheet to suit many architectural applications including road barrier walls, balustrading, internal and external cladding.

Sheet size range is up to 2500 mm wide and 6000 mm long. Sheet can be clear, tinted or solid colour to suit your project requirements.

PMMA (Acrylic) is available from 12 mm to 25 mm thick. Polycarbonate is available from 12 mm to 15 mm thick with UV capping both sides.



PERFORMANCE FEATURES

- Superior Light transmission above 90 %
- High UV resistance
- Highly effective noise reduction
- Optical grade resins
- Exceptional flatness control
- Low levels of optical distortion
- Heavy duty protective masking
- Customized sheet sizes
- 15 year warranty period (min)





OPTICAL GRADE HEAVY GAUGE SHEETS

- Optical grade PMMA and Polycarbonate sheet
- High Performance Extruded sheet
- Exceptional surface finish and reversion control
- Sheets are made under ISO 9001 and ISO/TS 16949 Quality System and ISO 14001 Environmental Management System

Allplastics offers:

- Cut to Size Service
- CNC routing service
- Diamond Edge Polishing
- Welding and Gluing
- Encapsulation
- Forming and fabrication service
- Installation can be arranged



PMMA TECHNICAL DATA



GENERAL			
Density	ISO1183	1.19 (0.0429)	g/cm3 (lb/in3)
Water Absorption	ISO62	0.3	%
MECHANICAL			
Tensile Strength	ISO527-2	70 (10152)	MPa (psi)
Elongation at Break	ISO527-2	4	%
Tensile Modulus	ISO527-2	3000 (435097)	MPa (psi)
Flexural Strength	ISO178	110 (15956)	MPa (psi)
Flexural Modulus	ISO178	3000 (435097)	MPa (psi)
Rockwell Hardness	ISO2039	95	M Scale
THERMAL			
Vicat Softening Temperature, B50, Annealed	ISO306	100 (212)	°C (°F)
Linear Thermal Expansion	DIN53752	7	/°K x 10-5
Continuous Service Temperature	-	70 (158)	°C (°F)
OPTICAL			
Light Transmission (3mm / 0.118")	DIN5036-3	92	%
Refractive Index	DIN5036-3	1.49	-



POLYCARBONATE TECHNICAL DATA



GENERAL			
Density	ISO1183	1.20 (0.04332)	g/cm3 (lb/in3)
Water Absorption	ISO62	0.2	%
MECHANICAL			
Tensile Strength	ISO527-2	65 (8702)	MPa (psi)
Elongation at Break	ISO527-2	80	%
Tensile Modulus	ISO527-2	2300 (333575)	MPa (psi)
Flexural Strength	ISO178	90 (13052)	MPa (psi)
Flexural Modulus	ISO178	2300 (333575)	MPa (psi)
Charpy Impact Strength, Notched	ISO179-1	40 (19.02)	kJ/m2 (ft-lb/in2)
Izod Impact Strength, Notched	ISO180/1A	70 (33)	kJ/m2 (ft-lb/in2)
THERMAL			
Vicat Softening Temperature, B50, Annealed	ISO306	135 (275)	°C (°F)
Heat Distortion Temperature, 1.8MPa	ISO75	125 (257)	°C (°F)
Linear Thermal Expansion	DIN53752	7	/°K x 10-5
Continuous Service Temperature	-	110 (230)	°C (°F)
Maximum Short Term Temperature	-	120 (248)	°C (°F)
Degradation Temperature	-	> 280 (> 536)	°C (°F)
OPTICAL			
Light Transmission (3mm / 0.118")	DIN5036-3	86	%
Refractive Index	DIN5036-3	1.59	-



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