



MULFORD
PLASTICS
delivering solutions

CAST ACRYLIC SHEET

Cast Acrylic Sheet

Cast acrylic is one of the most widely used grades of acrylic sheet in today's market. Acrylic is available in transparent, translucent, colours and matt finish in a number of thickness and sheet sizes. It can be cut, drilled, glued, thermoformed, bent, machined, polished and engraved. It is lighter yet stronger than glass and has superb clarity, rigidity and surface hardness making it extremely versatile. Acrylic sheeting is suitable for both indoor and outdoor applications and has excellent weatherability and is resistant to most common chemicals including acids, alkalis, oils and greases; it is a suitable choice for numerous signage and POS display applications.

Key Features

- Better impact strength than glass
- Easily fabricated, thermoformed, polished or machined
- Excellent optical quality
- High surface hardness
- Excellent light transmission
- Excellent weatherability
- Chemical resistance to common acids, alkalis, salt spray, petroleum oils and greases.

Product Applications

- Outdoor/indoor signage
- Outdoor lighting & shields
- Display cabinets, POS displays & brochure holders
- Automotive parts – headlight protectors and bonnet protectors
- Barrel vaults
- Glazing
- Fish tanks

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TECHNICAL DATA SHEET

PROPERTY	TEST METHOD	UNITS	ASTARIGLAS
GENERAL			
Relative Density	ISO 1183		1.19
Water Absorption	ISO 62	%	0.2
MECHANICAL			
Tensile Strength	ISO 527	Mpa	70
Elongation at Break	ISO 527	%	4
Flexural Strength	ISO 178	Mpa	116
Flexural Modulus	ISO 178	Mpa	3200
Impact Strength - Charpy	ISO 179	k.J.m ⁻²	12
Izod Impact Strength	ISO 180/I A	k.J.m ⁻²	1.4
Rockwell Hardness	ISO 2039 - 2	M scale	95
THERMAL			
Vicat Softening Point	ISO 306 A	°C	> 110
Coefficient of Thermal Expansion - Linear	ASTM D696	x 10 ⁻⁵ .K ⁻¹	7
Flammability	UL94		HB
OPTICAL			
Light Transmission	ASTM D1003	% (0 mm)	>92
Refractive Index	ISO 489 A		1.49
ELECTRICAL			
Surface resistivity	IEC 93	□	> 10 ¹⁴
Electrical Strength	IEC 243	kV/mm	30

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