

PMMA

Optima+ PMMA (Acrylic) Sheet is a plastic material which exhibits glass-like quality but is only half of the weight. We provide PMMA (acrylic) sheets with outstanding durability and quality which are suitable for a wide range of applications. The PMMA sheets comprise a tough and durable plastic, suitable for replacing glass and polycarbonate (PC) when extreme strength is not essential. They are scratch resistance and pleasing in surface appearance. The PMMA sheets are resistant to inorganic acids and are suitable for outdoor usage providing good weather resistance (not turning yellowish over a period of time). They offer high clarity and light transmittance up to 93%, as well as being easy to fabricate with excellent thermoforming capabilities. They are available in a variety of colours.

Typical Property Values

Property	Item	Test Method	Metric	Imperial
Physical	Density	ASTM D792	1.19g/cc	0.043 lb/in ³
	Water Absorption	ASTM D570 (24 hours)	0.30%	0.30%
	Linear Mold Shrinkage	ASTM D955	0.002-0.006 cm/cm	0.002-0.006 in/in
	Melt Flow	ASTM D1238	14g/10min @Load 83.80kg Temp 230°C	14g/10min @Load 8.38lb Temperature 446°F
Mechanical	Hardness, Rockwell M	ASTM D675	90	90
	Tensile Strength at Break	ASTM D638	65.7 MPa	9539 psi
	Elongation at Break	ASTM D639	4.00%	4.00%
	Modulus of Elasticity	ASTM D640	3.23 GPa	469 ksi
	Flexural Yield Strength	ASTM D790	98.04 MPa	14220 psi
	Flexural Modulus	ASTM D791	3.04 GPa	440.9 ksi
	Compressive Yield Strength	ASTM D695	97.9 MPa	14200 psi
	Izod Impact, Notched	ASTM D256 (0.25 in)	0.196 J/cm	0.368 ft-lb/in
	Impact	cm Falling Ball Impact	115	115
Optical	Refraction Index	ASTM D542	1.49	1.49
	Transmission, Visible	ASTM D1003	93% @ thickness 3.2mm	93% @ thickness 0.126in

Remarks

- The data presented above represents values from our testing of the material. It is the responsibility of the user to test and confirm our materials are suitable for their intended applications. All information and technical assistance is given without warranty or guarantee and is subject to change without notice.
- Unless otherwise agreed to in writing, all products are sold strictly pursuant to our standard conditions of sale.
- Please contact your Optima+ sales representative for any questions or enquiries regarding special applications.

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Optima+

The Plastics Sheets Specialist