PMMA

Polymethyl methacrylate (acrylic)

DESIGNATION	CHEMICAL NAME	TYPE
PMMA	Polymethyl methacrylate (acrylic)	Thermoplastic

General description

In its clear version, PMMA is clearer than glass.
The material is particularly weather resistant and can be used outdoors for many years without its mechanical properties or colour changing.

Processing

PMMA is available as semi-finished products in the form of sheets, rods and tubes.
The material is manufactured in both cast and extruded grades.
It has good machining properties, and the material can be bonded and thermoformed.

Applications

Windows, displays, advertising and illuminated signs. Works of art.
Sheets for sunbeds.
Vacuum-formed bathtubs and shower trays.

Special features

Many colours.
UV-transmitting grades for sunbeds.
Common trade names: Repsol, Plexiglas, Perspex and Altuglas.
Highly impact-resistant grades can be supplied.
Food contact approval for certain types/products.

Properties

PROPERTY	STANDARD	UNIT	VALUE
Density	DIN 53479	g/cm^3	1.2
Tensile strength	DIN 53455	N/mm^2	67-76
Impact strength at 23 °C	DIN 53453	kJ/m^2	12-26
Modulus of elasticity	DIN 53457	N/mm^2	2800-3300
Elongation at break	DIN 53455	%	4-6
Service temperature, continuous	-	°C	-20/+85
Thermal expansion	ASTM D 896	mm/m/°C	0.08
Flammability	UL 94		HB

All information and guidelines are based on generally recognised technical handbooks and are given to the best of our knowledge and in good faith, without liability for any errors.

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