

PMMA (Polymethyl Methacrylate) is a transparent thermoplastic material, commonly known as acrylic or plexiglass. It is widely used as a lightweight and shatter-resistant alternative to glass. PMMA offers excellent clarity, UV resistance, and weatherability, and it can be easily moulded and machined.

PHYSICAL PROPERTIES*

Density ASTM D-792	1.2 g/cm ³
Tensile Strength ASTM D-638	680 kg/cm ²
Tensile Elongation ASTM D-638	5%
Flexural Strength ASTM D-790	1000 kg/cm ²
Light Transmission ASTM D-1003	92%
Izod Impact Strength ASTM D-256	2.0 kg/cm ²
Hardness ASTM D-785	85 M scale
Specific Gravity ASTM D-792	1.19 g/cm ³

THERMAL PROPERTIES

Melt Flow Index ASTM D-1238	8.0 g/10min
Vicat Softening Temperature ASTM D-1525	105°C
Heat Distortion Temperature ASTM D-648	92°C
Flammability UL 94	1/16"HB
Coefficient of Linear Expansion ASTM D-696	5-9 10 ⁻⁵ /°C
Thermal Conductivity DIN 52612	4-5 kcal/m.hr.°C
Temperature Resistance	70-110 °C

ELECTRICAL PROPERTIES

Dielectric Strength

35 - 40 kv/mm

APPLICATION

Windows
Signage
Display cases
Optic lenses

Dental prosthetics
Kitchenware
Construction partitions
Light covers

*The above product parameters are to be considered typical product parameters and are not intended to be considered product specifications. Table provided are general and may vary CM-207 TW/TH/CH

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