

Evonik Corporation Plexiglas® 7M PMMA Molding Compound

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, General Purpose, Molded

Material Notes:

Description: PLEXIGLAS® 7M molding compound is based on polymethyl methacrylate (PMMA). PLEXIGLAS® 7M is special in that it has better flowing behavior. Besides showing the familiar properties of PLEXIGLAS® 7H molding compounds, such as:excellent light transmission and brillianceexcellent weatherabilityhigh mechanical strength, surface hardness and abrasion resistancePLEXIGLAS® 7M is particularly suitable for extruding profiles and panels for use in lighting engineering. Uses of PLEXIGLAS® 7M molding compound: lighting fixtures, displays and similar extruded items for technical purposes.Information provided by degussa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Plexiglas-7M-PMMA-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 1183
Melt Flow	3.45 g/10 min @Load 3.80 kg, Temperature 230 °C	3.45 g/10 min @Load 8.38 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	69.0 MPa	10000 psi	5 mm/min; ISO 527
Elongation at Break	4.0 %	4.0 %	5 mm/min; ISO 527
Tensile Modulus	3.20 GPa	464 ksi	1 mm/min; ISO 527
Charpy Impact Unnotched	2.00 J/cm ² @Temperature 23.0 °C	9.52 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C @Temperature 0.000 - 50.0 °C	44.4 µin/in-°F @Temperature 32.0 - 122 °F	ASTM E831
Vicat Softening Point	104 °C	219 °F	B50; ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	IEC 707
Glass Temperature Coefficient	108	108	ISO 11357

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ISO 489

Optical Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Processing Temperature	220 - 260 °C	428 - 500 °F	Barrel Temperature
Die Temperature	220 - 260 °C	428 - 500 °F	
Melt Temperature	220 - 260 °C	428 - 500 °F	
Drying Temperature	<= 94.0 °C	<= 201 °F	Predrying
Dry Time	2 - 3 hour	2 - 3 hour	Desiccant-type drier

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