

Evonik Corporation Plexiglas® 6N PMMA Molding Compound

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

Material Notes:

Description: PLEXIGLAS® 6N is a molding compound based on polymethyl methacrylate (PMMA). The special properties of PLEXIGLAS® 6N are: good flow, high mechanical strength, surface hardness and abrasion resistance, high light transmission, excellent weather resistance, free colorability due to crystal clarity. The special properties of PLEXIGLAS® 6N are: very good mechanical properties, high heat deflection temperature, excellent flow / melt viscosity. Application: Particularly suitable for injection molding optical and technical items. Information provided by manufacture.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Plexiglas-6N-PMMA-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 1183
Melt Flow	14.28 g/10 min @Load 3.80 kg, Temperature 230 °C	14.28 g/10 min @Load 8.38 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	67.0 MPa	9720 psi	5 mm/min; ISO 527
Elongation at Break	3.0 %	3.0 %	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	96.0 °C	205 °F	B50; ISO 306

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ISO 489
Transmission, Visible	92 %	92 %	Transmission Factor; DIN 5036

Processing Properties	Metric	English	Comments
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Processing Temperature Processing Properties	220 - 260 °C Metric	428 - 500 °F English	Cylinder Temperature Comments
Melt Temperature	220 - 260 °C	428 - 500 °F	
Mold Temperature	60.0 - 90.0 °C	140 - 194 °F	
Drying Temperature	<= 85.0 °C	<= 185 °F	Predrying
Dry Time	2 - 3 hour	2 - 3 hour	Desiccant-type drier

Descriptive Properties	Value	Comments
Fire Rating	B2	DIN 4102

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