

Evonik Corporation Plexiglas® 7N PMMA Molding Compound

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

Material Notes:

Description: PLEXIGLAS® 7N is a molding compound based on polymethyl methacrylate (PMMA). Typical properties of PLEXIGLAS® molding compounds 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® 7N compound are: very good mechanical properties, high heat deflection temperature, very good flow / melt viscosity. AMECA listing. Application: Used for injection molding optical and technical items.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 1183
Melt Flow	7.14 g/10 min @Load 3.80 kg, Temperature 230 °C	7.14 g/10 min @Load 8.38 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	73.0 MPa	10600 psi	5 mm/min; ISO 527
Elongation at Break	3.5 %	3.5 %	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
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	95.0 °C	203 °F	ISO 75
Vicat Softening Point	103 °C	217 °F	B50; ISO 306
Glass Transition Temp, Tg	110 °C	230 °F	IEC 10006
Flammability, UL94	HB	HB	IEC 707

Thermal Properties	@Thickness 1.60 mm Metric	@Thickness 0.0630 in English	Comments
Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ISO 489
Haze	<= 0.50 %	<= 0.50 %	ASTM D1003
Transmission, Visible	92 %	92 %	Transmission Factor; DIN 5036

Processing Properties	Metric	English	Comments
Processing Temperature	220 - 260 °C	428 - 500 °F	Cylinder Temperature
Melt Temperature	220 - 260 °C	428 - 500 °F	
Mold Temperature	60.0 - 90.0 °C	140 - 194 °F	
Drying Temperature	<= 93.0 °C	<= 199 °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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