

## Evonik Corporation Plexiglas® 8N PMMA Molding Compound

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

### Material Notes:

Description: PLEXIGLAS® 8N 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® 8N compound are:

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Evonik-Corporation-Plexiglas-8N-PMMA-Molding-Compound.php](http://www.lookpolymers.com/polymer_Evonik-Corporation-Plexiglas-8N-PMMA-Molding-Compound.php)

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in <sup>3</sup>	ISO 1183
Melt Flow	3.57 g/10 min	3.57 g/10 min	ISO 1133
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	77.0 MPa	11200 psi	5 mm/min; ISO 527
Elongation at Break	5.5 %	5.5 %	5 mm/min; ISO 527
Tensile Modulus	3.30 GPa	479 ksi	1 mm/min; ISO 527
Charpy Impact Unnotched	2.00 J/cm <sup>2</sup>	9.52 ft-lb/in <sup>2</sup>	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C	44.4 µin/in-°F	ASTM E831
	@Temperature 0.000 - 50.0 °C	@Temperature 32.0 - 122 °F	
Deflection Temperature at 0.46 MPa (66 psi)	103 °C	217 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	98.0 °C	208 °F	ISO 75
Vicat Softening Point	108 °C	226 °F	B50; ISO 306
Glass Transition Temp, Tg	117 °C	243 °F	IEC 10006
Flammability, UL94	HB	HB	IEC 707
	@Thickness 1.60 mm	@Thickness 0.0630 in	

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	<= 98.0 °C	<= 208 °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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