

## Evonik Corporation Plexiglas® 7H PMMA Molding Compound

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

### Material Notes:

Description: PLEXIGLAS® 7H and PLEXIGLAS® 8H are molding compounds based on polymethyl methacrylate (PMMA). The special properties of these standard PLEXIGLAS® molding compounds are: high melt strength, 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® 7H are: very good mechanical properties, high heat deflection temperature, high melt strength, AMECA listing. Application: Used for extruding optical and technical profiles and sheets. Information provided by manufacture.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Evonik-Corporation-Plexiglas-7H-PMMA-Molding-Compound.php](http://www.lookpolymers.com/polymer_Evonik-Corporation-Plexiglas-7H-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	1.67 g/10 min @Load 3.80 kg, Temperature 230 °C	1.67 g/10 min @Load 8.38 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	76.0 MPa	11000 psi	5 mm/min; ISO 527
Elongation at Break	5.5 %	5.5 %	5 mm/min; ISO 527
Tensile Modulus	3.20 GPa	464 ksi	1 mm/min; ISO 527
Charpy Impact Unnotched	2.00 J/cm <sup>2</sup> @Temperature 23.0 °C	9.52 ft-lb/in <sup>2</sup> @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	112 °C	234 °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	Barrel Temperature
Die Temperature	220 - 260 °C	428 - 500 °F	
Melt Temperature	220 - 260 °C	428 - 500 °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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