

Evonik Corporation Plexiglas® zk5BR Molding Compound

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

Material Notes:

PLEXIGLAS® Resist zk5BR is an amorphous, impact-modified thermoplastic molding compound (PMMA-I). Typical properties of impact-modified PLEXIGLAS® molding compounds are: high weather resistance, excellent transmission and clarity, brilliant appearance, the pleasant feel and sound of the moldings. PLEXIGLAS® Resist zk5BR is characterized by the following special properties: high break resistance and impact strength, improved resistance to stress cracking, balanced property profile, AMECA listing. Application: Used for injection molding as well as for extruding and coextruding panels and profiles.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Plexiglas-zk5BR-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in³	ISO 1183
Moisture Absorption at Equilibrium	0.50 %	0.50 %	23°C, 50%; ISO 62
Water Absorption at Saturation	1.9 %	1.9 %	Immersion; ISO 62
Melt Flow	3.861 g/10 min @Load 3.80 kg, Temperature 230 °C	3.861 g/10 min @Load 8.38 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	62.0 MPa	8990 psi	50 mm/min; ISO 527
Elongation at Break	27 %	27 %	ISO 527
Elongation at Yield	4.5 %	4.5 %	50 mm/min; ISO 527
Tensile Modulus	2.40 GPa	348 ksi	1 mm/min; ISO 527
Charpy Impact Unnotched	5.00 J/cm² @Temperature 23.0 °C	23.8 ft-lb/in² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C @Temperature 0.000 - 50.0 °C	50.0 µin/in-°F @Temperature 32.0 - 122 °F	ASTM E831
Deflection Temperature at 0.46 MPa (66 psi)	98.0 °C	208 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	93.0 °C	199 °F	ISO 75

Vicat Softening Point Thermal Properties	100 °C Metric	212 °F English	850° ISO 306 Comments
Glass Transition Temp, Tg	109 °C	228 °F	IEC 10006
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	IEC 707

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ISO 489
Haze	<= 2.0 %	<= 2.0 %	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
Melt Temperature	220 - 260 °C	428 - 500 °F	
Mold Temperature	50.0 - 70.0 °C	122 - 158 °F	
Drying Temperature	<= 90.0 °C	<= 194 °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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