

Evonik Corporation Plexiglas® zk50 Molding Compound

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

Material Notes:

PLEXIGLAS® Resist zk50 is an amorphous, impact-modified thermoplastic molding compound (PMMA-I). Typical properties of impact-modified PLEXIGLAS® molding compounds are: excellent transmission and claritybrilliant appearance the pleasant feel and sound of the moldings PLEXIGLAS® Resist zk50 is characterized by the following special properties: maximum break resistance and impact strengthimproved resistance to stress crackingcertified dishwasher resistanceApplication: Used for injection molding. Profile extrusion or coextrusion are also possible

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Plexiglas-zk50-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.40 %	0.40 %	23°C, 50%; ISO 62
Water Absorption at Saturation	1.2 %	1.2 %	Immersion; ISO 62
Melt Flow	0.112 g/10 min @Load 3.80 kg, Temperature 230 °C	0.112 g/10 min @Load 8.38 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	25.0 MPa	3630 psi	50 mm/min; ISO 527
Elongation at Break	>= 50 %	>= 50 %	ISO 527
Elongation at Yield	5.0 %	5.0 %	50 mm/min; ISO 527
Tensile Modulus	0.950 GPa	138 ksi	1 mm/min; ISO 527
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	1.30 J/cm ²	6.19 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	150 µm/m-°C @Temperature 0.000 - 50.0 °C	83.3 µin/in-°F @Temperature 32.0 - 122 °F	ASTM E831
Deflection Temperature at 0.46 MPa (66 psi)	73.0 °C	163 °F	ISO 75
Deflection Temperature at 1.8 MPa	70.0 °C	158 °F	ISO 75

<small>(264 psi)</small> Thermal Properties	Metric	English	Comments
Vicat Softening Point	75.0 °C	167 °F	B50; ISO 306
Glass Transition Temp, Tg	115 °C	239 °F	ISO 11357
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
Transmission, Visible	89 %	89 %	Transmission Factor; DIN 5036

Processing Properties	Metric	English	Comments
Processing Temperature	230 - 240 °C	446 - 464 °F	Cylinder/Barrel Temperature
Melt Temperature	230 - 240 °C	446 - 464 °F	
Mold Temperature	50.0 - 70.0 °C	122 - 158 °F	
Drying Temperature	<= 70.0 °C	<= 158 °F	Predrying
Dry Time	2 - 3 hour	2 - 3 hour	Desiccant-type drier

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