

Evonik Corporation Plexiglas® zk6HC Molding Compound

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

Material Notes:

PLEXIGLAS® Resist zk6HC 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 zk6HC is characterized by the following special properties: excellent break resistance and impact strength, good resistance to stress cracking of all impact-modified PLEXIGLAS® molding compounds. Application: Used for extruding and coextruding sheets and profiles.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Plexiglas-zk6HC-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.50 %	0.50 %	23°C, 50%; ISO 62
Water Absorption at Saturation	1.8 %	1.8 %	Immersion; ISO 62
Melt Flow	0.464 g/10 min @Load 3.80 kg, Temperature 230 °C	0.464 g/10 min @Load 8.38 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	47.0 MPa	6820 psi	50 mm/min; ISO 527
Elongation at Break	48 %	48 %	ISO 527
Elongation at Yield	5.5 %	5.5 %	50 mm/min; ISO 527
Tensile Modulus	2.00 GPa	290 ksi	1 mm/min; ISO 527
Charpy Impact Unnotched	8.00 J/cm ² @Temperature 23.0 °C	38.1 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	110 µm/m-°C @Temperature 0.000 - 50.0 °C	61.1 µin/in-°F @Temperature 32.0 - 122 °F	ASTM E831
Vicat Softening Point	97.0 °C	207 °F	B50; ISO 306
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	91 %	91 %	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	<= 85.0 °C	<= 185 °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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