

## Evonik Corporation Plexiglas® zk20 Molding Compound

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

### Material Notes:

PLEXIGLAS® Resist zk20 is an amorphous, impact-modified thermoplastic molding compound (PMMA-I). Typical properties of impact-modified PLEXIGLAS® molding compounds are: excellent light transmission good mechanical properties. PLEXIGLAS® Resist zk20 is characterized by the following special properties: increased break resistance to avoid demolding fractures during injection molding improved resistance to stress cracking AMECA listing. Application: 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-zk20-Molding-Compound.php](http://www.lookpolymers.com/polymer_Evonik-Corporation-Plexiglas-zk20-Molding-Compound.php)

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	0.50 %	0.50 %	23°C, 50%; ISO 62
Water Absorption at Saturation	1.7 %	1.7 %	Immersion; ISO 62
Melt Flow	2.34 g/10 min @Load 3.80 kg, Temperature 230 °C	2.34 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	22 %	22 %	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	2.50 J/cm <sup>2</sup> @Temperature 23.0 °C	11.9 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	100 µm/m-°C @Temperature 0.000 - 50.0 °C	55.6 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)	96.0 °C	205 °F	ISO 75

Vicat Softening Point Thermal Properties	102 °C Metric	216 °F English	850: ISO 306 Comments
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	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	<= 95.0 °C	<= 203 °F	Predrying
Dry Time	2 - 3 hour	2 - 3 hour	Desiccant-type drier

## Contact Songhan Plastic Technology Co.,Ltd.

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