

## Evonik Corporation Plexiglas® zk30 Molding Compound

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

### Material Notes:

PLEXIGLAS® Resist zk30 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 zk30 is characterized by the following special properties: good break resistance and impact strengthimproved resistance to stress crackingcertified dishwasher resistanceAMECA listingApplication: 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-zk30-Molding-Compound.php](http://www.lookpolymers.com/polymer_Evonik-Corporation-Plexiglas-zk30-Molding-Compound.php)

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 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	1.61 g/10 min @Load 3.80 kg, Temperature 230 °C	1.61 g/10 min @Load 8.38 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	51.0 MPa	7400 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	2.00 GPa	290 ksi	1 mm/min; ISO 527
Charpy Impact Unnotched	5.50 J/cm <sup>2</sup> @Temperature 23.0 °C	26.2 ft-lb/in <sup>2</sup> @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
Deflection Temperature at 0.46 MPa (66 psi)	96.0 °C	205 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	91.0 °C	196 °F	ISO 75

Vicat Softening Point Thermal Properties	98.0 °C Metric	208 °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	90 %	90 %	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	<= 90.0 °C	<= 194 °F	Predrying
Dry Time	2 - 3 hour	2 - 3 hour	Desiccant-type drier

## Contact Songhan Plastic Technology Co.,Ltd.

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