

Evonik Corporation Plexiglas® df23 zk6BR Molding Compound

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

Material Notes:

Description: Impact-modified PLEXIGLAS® df22 zk6BR and PLEXIGLAS® df23 zk6BR molding compounds based on PLEXIGLAS® zk6BR are characterized by diffuse scattering of light. Besides showing the familiar properties of basic molding compound PLEXIGLAS® zk, such as good impact strength, good weatherability, high surface hardness and scratch resistance, PLEXIGLAS® df22 zk6BR and PLEXIGLAS® df23 zk6BR are special in that they combine good diffusing power with excellent light transmission and satin surfaces can be obtained by variation of the extrusion parameters. PLEXIGLAS df molding compounds are the optimal choice, when a combination of high light scattering and excellent light transmission is required. Both, PLEXIGLAS df22 zk6BR and PLEXIGLAS df23 zk6BR are well designed for lamp covers, projected areas and similar applications. Information provided by degussa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Plexiglas-df23-zk6BR-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ISO 1183
Melt Flow	1.495 g/10 min	1.495 g/10 min	ISO 1133
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	46.0 MPa	6670 psi	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	50 mm/min; ISO 527
Tensile Modulus	1.90 GPa	276 ksi	1 mm/min; ISO 527
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C	50.0 µin/in-°F	ASTM E831
	@Temperature 0.000 - 50.0 °C	@Temperature 32.0 - 122 °F	
Deflection Temperature at 0.46 MPa (66 psi)	99.0 °C	210 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	93.0 °C	199 °F	ISO 75
Vicat Softening Point	91.0 °C	196 °F	B50; ISO 306
Glass Transition Temp, Tg	107 °C	225 °F	IEC 10006

Thermal Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
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Transmission, Visible	81 %	81 %	Transmission Factor; DIN 5036
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Processing Properties	Metric	English	Comments
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Processing Temperature	230 - 260 °C	446 - 500 °F	Barrel Temperature
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Die Temperature	260 °C	500 °F	
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Melt Temperature	230 - 260 °C	446 - 500 °F	
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Drying Temperature	<= 85.0 °C	<= 185 °F	Predrying
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Dry Time	2 - 3 hour	2 - 3 hour	Desiccant-type drier
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Descriptive Properties	Value	Comments
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Energy Half Angle	20°	IEC 695-2
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Fire Rating	B2	DIN 4102
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