

Evonik Corporation Plexiglas® df21 8N Molding Compound

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

Material Notes:

Description: PLEXIGLAS® df21 8N, PLEXIGLAS® df22 8N and PLEXIGLAS® df23 8N molding compounds based on PLEXIGLAS® 8N are characterized by diffuse scattering of light. Besides showing the familiar properties of standard PLEXIGLAS® molding compound, such as excellent weatherability, high surface hardness and scratch resistance, PLEXIGLAS® df21 8N, PLEXIGLAS® df22 8N and PLEXIGLAS® df23 8N are special in that they combine good diffusing power with excellent light transmission. PLEXIGLAS df molding compounds are the optimal choice, when a combination of high light scattering and excellent light transmission is required. Both, PLEXIGLAS df22 8N and PLEXIGLAS df23 8N are well designed for lamp covers, projected areas and similar applications. For displays and backlight units PLEXIGLAS df21 8N is the favored material. Information provided by degussa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Plexiglas-df21-8N-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 1183
Melt Flow	2.975 g/10 min @Load 3.80 kg, Temperature 230 °C	2.975 g/10 min @Load 8.38 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	71.0 MPa	10300 psi	5 mm/min; ISO 527
Elongation at Break	4.5 %	4.5 %	5 mm/min; ISO 527
Tensile Modulus	3.30 GPa	479 ksi	1 mm/min; ISO 527
Charpy Impact Unnotched	1.80 J/cm ² @Temperature 23.0 °C	8.57 ft-lb/in ² @Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	63.0 µm/m-°C @Temperature 0.000 - 50.0 °C	35.0 µin/in-°F @Temperature 32.0 - 122 °F	ASTM E831
Deflection Temperature at 0.46 MPa (66 psi)	103 °C	217 °F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	98.0 °C	208 °F	ISO 75
Vicat Softening Point	109 °C	228 °F	B50; ISO 306
Glass Transition Temp, Tg	111 °C	232 °F	IEC 10006

Thermal Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
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Transmission, Visible	87 %	87 %	Transmission Factor; DIN 5036
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Processing Properties	Metric	English	Comments
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Processing Temperature	220 - 260 °C	428 - 500 °F	Cylinder Temperature
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Melt Temperature	220 - 260 °C	428 - 500 °F	
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Mold Temperature	60.0 - 90.0 °C	140 - 194 °F	
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Drying Temperature	<= 95.0 °C	<= 203 °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	9°	IEC 695-2
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Fire Rating	B2	DIN 4102
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