

Eurostar Starglas FF001 HDPE, Glass Fiber Filled

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Glass fiber Filled

Material Notes:

Starglas FF001 is a Glass Fiber Reinforced High Density Polyethylene Resin Information provided by Eurostar.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eurostar-Starglas-FF001-HDPE-Glass-Fiber-Filled.php

Physical Properties	Metric	English	Comments
Density	1.00 g/cc	0.0361 lb/in ³	ISO 1183
Moisture Absorption	0.000 % @Temperature 23.0 °C	0.000 % @Temperature 73.4 °F	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0070 cm/cm @Thickness 4.00 mm	0.0070 in/in @Thickness 0.157 in	E2P method

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	28.0 MPa	4060 psi	5 mm/min; ISO 527
Elongation at Yield	3.6 %	3.6 %	5 mm/min; ISO 527
Tensile Modulus	1.70 GPa	247 ksi	1 mm/min; ISO 527
Flexural Yield Strength	36.0 MPa	5220 psi	2 mm/min; ISO 178
Flexural Modulus	1.50 GPa	218 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	5.00 kJ/m ²	2.38 ft-lb/in ²	80x10x4; ISO 180/1A
Izod Impact, Unnotched (ISO)	25.0 kJ/m ²	11.9 ft-lb/in ²	80x10x4; ISO 180/1U

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	62.0 °C	144 °F	Flatw 80x10x4, sp=64 mm; ISO 75/Af

Processing Properties	Metric	English	Comments
Zone 1	195 - 205 °C	383 - 401 °F	
Zone 2	210 - 220 °C	410 - 428 °F	
Zone 3	220 - 230 °C	428 - 446 °F	
Melt Temperature	230 °C	446 °F	
Mold Temperature	40.0 - 55.0 °C	104 - 131 °F	

Processing Properties	Metric	English	Comments
Drying Temperature	@Time 7200 sec	@Time 2.00 hour	

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