

Evonik Corporation Vestodur® GF50 nf PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 50% Glass Fiber Filled

Material Notes:

For the injection molding of very rigid and heat resistant parts.ISO data as provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestodur-GF50-nf-PBT.php

Physical Properties	Metric	English	Comments
Density	1.71 g/cc	0.0618 lb/in ³	
Water Absorption	0.00 %	0.00 %	
Moisture Absorption at Equilibrium	<= 0.50 %	<= 0.50 %	Humidity Absorption
Melt Flow	8.0 g/10 min	8.0 g/10 min	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	160 MPa	23200 psi	
Elongation at Break	1.0 %	1.0 %	
Modulus of Elasticity	15.0 GPa	2180 ksi	
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	
	6.50 J/cm ² @Temperature -30.0 °C	30.9 ft-lb/in ² @Temperature -22.0 °F	
Charpy Impact, Notched	1.30 J/cm ²	6.19 ft-lb/in ²	
	1.20 J/cm ² @Temperature -30.0 °C	5.71 ft-lb/in ² @Temperature -22.0 °F	
Tensile Impact Strength	80.0 kJ/m ²	38.1 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	15000 MPa	2.18e+6 psi	
Tensile Creep Modulus, 1000 hours	10000 MPa	1.45e+6 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	<= 50.0 µm/m-°C	<= 27.8 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	<= 50.0 µm/m-°C	<= 27.8 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	
Deflection Temperature at 1.8 MPa (264 psi)	220 °C	428 °F	
Vicat Softening Point	215 °C	419 °F	50°C/hr/50 N
UL RTI, Electrical	130 °C	266 °F	
UL RTI, Mechanical with Impact	130 °C	266 °F	
UL RTI, Mechanical without Impact	140 °C	284 °F	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	HB	HB	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Dielectric Constant	4.0	4.0	
	@Frequency 100 Hz	@Frequency 100 Hz	
	4.0	4.0	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	27.0 kV/mm	686 kV/in	
Dissipation Factor	0.0040	0.0040	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.015	0.015	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	500 V	500 V	

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