

Evonik Corporation Vestodur® HI19-GF30-FR2 nf PBT

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Glass Fiber Filled, Flame Retardant

Material Notes:

Impact resistant, glass fiber reinforced (30%), self-extinguishing PBT resin which meets UL 94 with non-migrating flame retardant agent for the injection molding of stiff parts with high resistance to heat distortion.ISO data as provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestodur-HI19-GF30-FR2-nf-PBT.php

Physical Properties	Metric	English	Comments
Density	1.66 g/cc	0.0600 lb/in ³	
Water Absorption	0.00 %	0.00 %	
Moisture Absorption at Equilibrium	<= 0.50 %	<= 0.50 %	Humidity Absorption
Melt Flow	4.0 g/10 min	4.0 g/10 min	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	120 MPa	17400 psi	
Elongation at Break	5.0 %	5.0 %	
Elongation at Yield	3.0 %	3.0 %	
Modulus of Elasticity	7.00 GPa	1020 ksi	
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.40 J/cm ²	6.66 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tensile Impact Strength	8.00 kJ/m ²	3.81 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	6800 MPa	986000 psi	
Tensile Creep Modulus, 1000 hours	5100 MPa	740000 psi	

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

Thermal Properties	@Temperature 20.0 °C Metric	@Temperature 68.0 °F English	Comments
CTE, linear, Transverse to Flow	<= 50.0 µm/m-°C @Temperature 20.0 °C	<= 27.8 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	190 °C	374 °F	
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	
Vicat Softening Point	165 °C	329 °F	50°C/hr/50 N
Flammability, UL94	V-0 @Thickness 1.60 mm	V-0 @Thickness 0.0630 in	
	V-0 @Thickness 3.20 mm	V-0 @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	3.0 @Frequency 1e+6 Hz	3.0 @Frequency 1e+6 Hz	
	4.0 @Frequency 100 Hz	4.0 @Frequency 100 Hz	
Dielectric Strength	25.0 kV/mm	635 kV/in	
Dissipation Factor	0.010 @Frequency 100 Hz	0.010 @Frequency 100 Hz	
	0.018 @Frequency 1e+6 Hz	0.018 @Frequency 1e+6 Hz	
Comparative Tracking Index	225 V	225 V	

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