

Evonik Corporation Vestodur® GF20-FR2 nf PBT (discontinued **)

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

Material Notes:

ISO data as provided by the manufacturer, Creanova, Inc. Glass fiber reinforced (20%), self-extinguishing PBT resin in accordance with UL 94 with non-migrating flame retardants and high rigidity. This former Creanova product line is a part of Degussa AG as of 2001. This grade is not part of the current Degussa product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestodur-GF20-FR2-nf-PBT-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	
Water Absorption	0.00 %	0.00 %	
Moisture Absorption at Equilibrium	<= 0.50 %	<= 0.50 %	Humidity Absorption
Melt Flow	10 g/10 min	10 g/10 min	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	130 MPa	18900 psi	
Elongation at Break	2.0 %	2.0 %	
Modulus of Elasticity	7.50 GPa	1090 ksi	
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	
	4.50 J/cm ²	21.4 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	
	0.700 J/cm ²	3.33 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tensile Impact Strength	55.0 kJ/m ²	26.2 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	7500 MPa	1.09e+6 psi	
Tensile Creep Modulus, 1000 hours	7000 MPa	1.02e+6 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	<= 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)	210 °C	410 °F	
Vicat Softening Point	210 °C	410 °F	50°C/hr/50 N
UL RTI, Electrical	140 °C	284 °F	
UL RTI, Mechanical with Impact	130 °C	266 °F	
UL RTI, Mechanical without Impact	130 °C	266 °F	
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	
	@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	3.0	3.0	
	@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	0.0030	0.0030	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.015	0.015	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	225 V	225 V	

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