

Evonik Corporation Vestodur® 2002-FR2 nf PBT (discontinued **)

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

Material Notes:

ISO data as provided by the manufacturer, Creanova, Inc. Self-extinguishing PBT resin in accordance with UL 94 with non-migrating flame retardants. 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-2002-FR2-nf-PBT-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 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, Yield	60.0 MPa	8700 psi	
Elongation at Break	8.0 %	8.0 %	
Elongation at Yield	4.0 %	4.0 %	
Modulus of Elasticity	3.10 GPa	450 ksi	
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	
	6.00 J/cm ²	28.6 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	
	0.400 J/cm ²	1.90 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tensile Impact Strength	45.0 kJ/m ²	21.4 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	3000 MPa	435000 psi	
Tensile Creep Modulus, 1000 hours	1800 MPa	261000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 µm/m-°C	55.6 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Transverse to Flow	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	170 °C	338 °F	
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	
Vicat Softening Point	180 °C	356 °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	140 °C	284 °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	
	3.0	3.0	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	27.0 kV/mm	686 kV/in	
Dissipation Factor	0.0020	0.0020	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.016	0.016	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	250 V	250 V	

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