

Evonik Corporation Vestodur® X7348 nf PBT

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

Material Notes:

Flame retardant, glass fiber reinforced (30%), impact resistant PBT-Plastic resin with increased comparative tracking index for processing by injection molding. Main applications: electronics and electrical applications.ISO data as provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-Corporation-Vestodur-X7348-nf-PBT.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in ³	
Water Absorption	0.00 %	0.00 %	
Melt Flow	8.0 g/10 min	8.0 g/10 min	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	110 MPa	16000 psi	
Elongation at Break	4.0 %	4.0 %	
Modulus of Elasticity	9.00 GPa	1310 ksi	
Charpy Impact Unnotched	8.00 J/cm ²	38.1 ft-lb/in ²	
	7.50 J/cm ²	35.7 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	2.00 J/cm ²	9.52 ft-lb/in ²	
	1.40 J/cm ²	6.66 ft-lb/in ²	
	@Temperature -30.0 °C	@Temperature -22.0 °F	

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	
Deflection Temperature at 0.46 MPa (66 psi)	223 °C	433 °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
	V-0	V-0	

Thermal Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	
Dielectric Constant	3.0	3.0	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	4.0	4.0	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	
Dissipation Factor	0.0075	0.0075	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	0.022	0.022	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	450 V	450 V	

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