

Evonik Corporation Vestodur® MIN125 nf PBT (discontinued **)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Mineral Filled

Material Notes:

ISO data as provided by the manufacturer, Creanova, Inc. Low-warpage, titanium dioxide filled (23%) PBT resin. For processing by injection molding, for example: headlamp reflectors. 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-MIN125-nf-PBT-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in ³	
Water Absorption	0.00 %	0.00 %	
Moisture Absorption at Equilibrium	<= 0.50 %	<= 0.50 %	Humidity Absorption
Melt Flow	25 g/10 min	25 g/10 min	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	
Elongation at Break	10 %	10 %	
Elongation at Yield	7.0 %	7.0 %	
Modulus of Elasticity	3.30 GPa	479 ksi	
Charpy Impact Unnotched	15.0 J/cm ²	71.4 ft-lb/in ²	
	12.0 J/cm ²	57.1 ft-lb/in ²	@Temperature -30.0 °C @Temperature -22.0 °F
Charpy Impact, Notched	0.500 J/cm ²	2.38 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	55.0 kJ/m ²	26.2 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	3300 MPa	479000 psi	
Tensile Creep Modulus, 1000 hours	1200 MPa	174000 psi	

Thermal Properties	Metric	English	Comments
	100 µm/m-°C	55.6 µin/in-°F	

CTE, linear, Parallel to Flow			
Thermal Properties	Metric	English	Comments
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	100 µm/m-°C	55.6 µin/in-°F	
	@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)	65.0 °C	149 °F	
Vicat Softening Point	190 °C	374 °F	50°C/hr/50 N
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 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	0.0065	0.0065	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.020	0.020	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	425 V	425 V	

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