Lavergne VYPET VNT 340 PET 40% Glass - Mineral Reinforced

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Glass/Mineral Reinforced

Material Notes:

Vypet VNT 340 is a 40% glass/mineral reinforced PET injection molding compound designed for electrical and structural applications, with High Dielectric StrengthFeatures: High temperature performance; Excellent strength & high stiffness; Excellent dimensional stabilityTypical Applications: Electric motors; Brackets; ConnectorsInformation provided by Bieglo Gmbh for Lavergne Performance Compounds

Order this product through the following link:
http://www.lookpolymers.com/polymer_Lavergne-VYPET-VNT-340-PET-40-Glass-Mineral-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.64 g/cc	0.0592 lb/inÂ³	ISO 1183
Water Absorption	0.060 % @Temperature 23.0 Â°C	0.060 % @Temperature 73.4 Â°F	ASTM D570
Linear Mold Shrinkage, Flow	0.0025 cm/cm @Thickness 2.00 mm	0.0025 in/in @Thickness 0.0787 in	2x60x60mm; ASTM D955
	0.0032 cm/cm @Thickness 3.20 mm	0.0032 in/in @Thickness 0.126 in	3.2x7.6x12.6mm; ASTM D955
Linear Mold Shrinkage, Transverse	0.0053 cm/cm @Thickness 2.00 mm	0.0053 in/in @Thickness 0.0787 in	2x60x60mm; ASTM D955
	0.0079 cm/cm @Thickness 3.20 mm	0.0079 in/in @Thickness 0.126 in	3.2x7.6x12.6mm; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	113	113	ASTM D785
Tensile Strength at Break	111 MPa	16100 psi	5 mm/min; ISO 527
Flexural Strength	170 MPa	24700 psi	2 mm/min; ISO 178
Flexural Modulus	10.5 GPa	1520 ksi	2 mm/min; ISO 178
Compressive Strength	151 MPa	21900 psi	1.3 mm/min; ASTM D695
Shear Strength	59.0 MPa	8560 psi	ASTM D732
Izod Impact, Notched (ISO)	6.70 kJ/mÂ²	3.19 ft-lb/inÂ²	ISO 180

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	17.0 Âµm/m-Â°C @Temperature 23.0 - 55.0 Â°C	9.44 Âµin/in-Â°F @Temperature 73.4 - 131 Â°F	ISO 11359-2
CTE, linear, Transverse to Flow	87.0 Âµm/m-Â°C @Temperature 23.0 - 55.0 Â°C	48.3 Âµin/in-Â°F @Temperature 73.4 - 131 Â°F	ISO 11359-3
Melting Point	249 Â°C	480 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	224 Â°C	435 Â°F	ISO 75
Flammability, UL94	HB @Thickness 0.750 mm	HB @Thickness 0.0295 in	
Flame Spread	47 mm/min	1.9 in/min	1.0 mm thickness; ISO 3795

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.09e+15 ohm-cm	1.09e+15 ohm-cm	ASTM D257
Dielectric Constant	3.8 @Frequency 1000 Hz	3.8 @Frequency 1000 Hz	ASTM D150
Dielectric Strength	16.2 kV/mm @Thickness 3.20 mm, Temperature 23.0 Â°C	411 kV/in @Thickness 0.126 in, Temperature 73.4 Â°F	500 V/s in oil; ASTM D149
	21.9 kV/mm @Thickness 1.60 mm, Temperature 23.0 Â°C	556 kV/in @Thickness 0.0630 in, Temperature 73.4 Â°F	500 V/s in oil; ASTM D149
Dissipation Factor	0.011 @Frequency 1000 Hz	0.011 @Frequency 1000 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Feed Temperature	260 - 270 Â°C	500 - 518 Â°F	
Middle Barrel Temperature	265 - 275 Â°C	509 - 527 Â°F	
Front Barrel Temperature	270 - 295 Â°C	518 - 563 Â°F	
Nozzle Temperature	275 - 300 Â°C	527 - 572 Â°F	
Melt Temperature	275 - 300 Â°C	527 - 572 Â°F	
Mold Temperature	75.0 - 120 Â°C	167 - 248 Â°F	

Processing Properties	Metric	English	Comments

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