

Lavergne VYPET VNT 840 HY PET 40% Glass-Mineral Reinforced

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

Material Notes:

Vypet VNT 840 HY is a 40% glass/mineral reinforced PET high strength injection molding compound with improved hydrolysis stability designed for electrical and structural applications, with High Dielectric Strength Features: High temperature performance; Excellent strength & high stiffness; Excellent dimensional stability; Better hydrolysis stability
 Typical Applications: Electric motors; Brackets; Connectors
 Information provided by Bieglo Gmbh for Lavergne Performance Compounds

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lavergne-VYPET-VNT-840-HY-PET-40-Glass-Mineral-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.61 g/cc	0.0582 lb/in ³	ISO 1183
Water Absorption	0.060 % @Temperature 23.0 Â°C	0.060 % @Temperature 73.4 Â°F	ASTM D570
Linear Mold Shrinkage, Flow	0.0050 cm/cm @Thickness 3.20 mm	0.0050 in/in @Thickness 0.126 in	3.2x7.6x12.6mm; ASTM D955
Linear Mold Shrinkage, Transverse	0.010 cm/cm @Thickness 3.20 mm	0.010 in/in @Thickness 0.126 in	3.2x7.6x12.6mm; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	109	109	ASTM D785
Tensile Strength at Break	150 MPa	21800 psi	5 mm/min; ISO 527
Flexural Strength	236 MPa	34200 psi	2 mm/min; ISO 178
Flexural Modulus	10.479 GPa	1519.9 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m ²	3.33 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 Âµm/m-Â°C @Temperature 23.0 - 55.0 Â°C	13.9 Âµin/in-Â°F @Temperature 73.4 - 131 Â°F	ASTM E831
CTE, linear, Transverse to Flow	30.0 Âµm/m-Â°C @Temperature 23.0 - 55.0 Â°C	16.7 Âµin/in-Â°F @Temperature 73.4 - 131 Â°F	ASTM E831

Melting Point Thermal Properties	246 Â°C Metric	475 Â°F English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	225 Â°C	437 Â°F	ISO 75
Flammability, UL94	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.65e+16 ohm-cm	1.65e+16 ohm-cm	ASTM D257
Dielectric Constant	3.8 @Frequency 1000 Hz	3.8 @Frequency 1000 Hz	ASTM D150
Dielectric Strength	28.4 kV/mm @Thickness 1.60 mm, Temperature 23.0 Â°C	721 kV/in @Thickness 0.0630 in, Temperature 73.4 Â°F	500 V/s in oil; ASTM D149
Dissipation Factor	0.0080 @Frequency 1000 Hz	0.0080 @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	

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