

Lavergne VYPET VNT 245 PET - PBT 45% Glass Reinforced Polyester

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , PBT + PET Blend, Glass Filled , Polyethylene Terephthalate (PET)

Material Notes:

Vypet VNT 245 is a 45% fiberglass reinforced modified PBT / PET polyester injection molding compound designed for electrical and automotive applications requiring low warp and improved surface finish. Features: High temperature performance; Excellent strength and stiffness; Excellent dimensional stability. Typical Applications: Automotive parts; Electric motor housings. Information provided by Bieglo Gmbh for Lavergne Performance Compounds

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lavergne-VYPET-VNT-245-PET-PBT-45-Glass-Reinforced-Polyester.php

Physical Properties	Metric	English	Comments
Density	1.67 g/cc	0.0603 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0050 cm/cm @Thickness 2.00 mm	0.0050 in/in @Thickness 0.0787 in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0090 cm/cm @Thickness 2.00 mm	0.0090 in/in @Thickness 0.0787 in	ASTM D955
Ash	45 %	45 %	ASTM D2854

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	160 MPa	23200 psi	5 mm/min; ASTM D638
Flexural Strength	240 MPa	34800 psi	1.3 mm/min; ASTM D790
Flexural Modulus	13.8 GPa	2000 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	0.800 J/cm @Temperature 23.0 Â°C	1.50 ft-lb/in @Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	212 Â°C	414 Â°F	ASTM D648

Processing Properties	Metric	English	Comments
Feed Temperature	260 - 270 Â°C	500 - 518 Â°F	
Middle Barrel Temperature	270 - 275 Â°C	518 - 527 Â°F	
Front Barrel Temperature	275 - 280 Â°C	527 - 536 Â°F	

Processing Properties	Metric	English	Comments
Melt Temperature	275 - 290 Â°C	527 - 554 Â°F	
Mold Temperature	75.0 - 100 Â°C	167 - 212 Â°F	
Injection Pressure	55.0 - 85.0 MPa	7980 - 12300 psi	

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