

Lavergne VYPET VNT 615 PET 15% Glass Reinforced

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 20% Glass Reinforced

Material Notes:

Vypet VNT 615 is a 15% fiberglass reinforced PET injection molding compound designed for structural applications. Features: Easy, fast processing; Excellent strength and stiffness; Excellent dimensional stability. Typical Applications: Electrical components; Motor encapsulation; Appliances parts. Information provided by Bieglo GmbH for Lavergne Performance Compounds

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lavergne-VYPET-VNT-615-PET-15-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0040 cm/cm @Thickness 2.00 mm	0.0040 in/in @Thickness 0.0787 in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0080 cm/cm @Thickness 2.00 mm	0.0080 in/in @Thickness 0.0787 in	ASTM D955
Ash	15 %	15 %	ASTM D2854

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa	10900 psi	5 mm/min; ASTM D638
Flexural Strength	130 MPa	18900 psi	1.3 mm/min; ASTM D790
Flexural Modulus	4.00 GPa	580 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	0.850 J/cm @Temperature 23.0 Â°C	1.59 ft-lb/in @Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	205 Â°C	401 Â°F	ASTM D648

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 Processing Properties	275 - 300 Â°C Metric	527 - 572 Â°F English	Comments
Mold Temperature	95.0 - 120 Â°C	203 - 248 Â°F	
Injection Pressure	55.0 - 85.0 MPa	7980 - 12300 psi	

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