

Lavergne VYPET VNT 615 FR PET 15% Glass Reinforced, Flame Retardant

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

Material Notes:

Vypet VNT 615 FR is a 15% fiberglass reinforced flame retardant PET injection molding compound designed for electrical and structural applications. Features: Flame retardant; UL yellow card file E216152; Excellent strength and stiffness; Excellent dimensional stability. Typical Applications: Electrical parts; Appliances; Electronic applications. 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-FR-PET-15-Glass-Reinforced-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ASTM D955
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	ASTM D955
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	105 MPa	15200 psi	5 mm/min; ASTM D638
Flexural Strength	155 MPa	22500 psi	1.3 mm/min; ASTM D790
Flexural Modulus	5.90 GPa	856 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	ASTM D256
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	200 Â°C	392 Â°F	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 0.850 mm	@Thickness 0.0335 in	
	5VA	5VA	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VA	5VA	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Thermal Properties	Metric	English	Comments
	960 Â°C	1760 Â°F	GWFI at 1.0 mm; IEC 60695-2-13

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+18 ohm-cm	1.00e+18 ohm-cm	ASTM D257
Dielectric Strength	37.0 kV/mm	940 kV/in	ASTM D149
Comparative Tracking Index	0.00 - 15 V	0.00 - 15 V	UL746

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 - 290 Â°C	518 - 554 Â°F	
Nozzle Temperature	275 - 295 Â°C	527 - 563 Â°F	
Melt Temperature	275 - 295 Â°C	527 - 563 Â°F	
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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