

Solvay Specialty Polymers Veradel® 3320GF Polyethersulfone (PESU) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyethersulfone (PES) , Polyethersulfone (PES), 20%Glass Fiber Filled

Material Notes:

Veradel 3320GF is a 20% glass fiber reinforced grade of polyethersulfone (PESU). Adding glass fiber to polyethersulfone substantially increases the rigidity, tensile strength, creep resistance, dimensional stability and chemical resistance of the material, while maintaining most of its other basic characteristics. The combination of structural properties and cost effectiveness make this resin an attractive alternative to metals in many engineering applications. Veradel 3320GF is an opaque, grayish material in its natural form and can be readily colored. This grade was formerly marketed as Gafone™ PESU. Additional Information: 1. These properties has been determined from injection molded test specimen under ideal processing parameters and conditioned at 23+/- 2°C and 50%RH. Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Veradel-3320GF-Polyethersulfone-PESU-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ASTM D792
Filler Content	20 %	20 %	Glass Fiber Reinforcement
Water Absorption	0.50 % @Time 86400 sec	0.50 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength	120 MPa	17400 psi	ASTM D638
Elongation at Break	2.8 %	2.8 %	ASTM D638
Tensile Modulus	7.00 GPa	1020 ksi	ASTM D638
Flexural Strength	170 MPa	24700 psi	ASTM D790
Flexural Modulus	6.50 GPa	943 ksi	ASTM D790
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 µm/m-°C	13.9 µin/in-°F	ASTM D696
Maximum Service Temperature, Air	190 °C	374 °F	Continuous; ASTM D794
Deflection Temperature at 1.8 MPa (264 psi)	210 °C	410 °F	Annealed; ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 0.800 mm	@Thickness 0.0315 in	UL 94
Oxygen Index	42 %	42 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	ASTM D257
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149
Arc Resistance	110 sec	110 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	UL 746

Processing Properties	Metric	English	Comments
Die Temperature	300 - 320 °C	572 - 608 °F	
Melt Temperature	340 - 380 °C	644 - 716 °F	
Mold Temperature	120 - 160 °C	248 - 320 °F	
Drying Temperature	150 °C	302 °F	
Dry Time	3.00 hour	3.00 hour	
Screw Speed	20 - 50 rpm	20 - 50 rpm	

Descriptive Properties	Value	Comments
Appearance	Colors Available	
	Opaque	
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Features	Acid Resistant	
	Flame Retardant	
	Good Adhesion	

Descriptive Properties	Value	Comments
	Good Creep Resistance	
	Good Dimensional Stability	
	High Rigidity	
	High Tensile Strength	
	Hydrolysis Resistant	
	Medium Flow	
	Medium Molecular Weight	
Forms	Pellets	
Generic	PESU	
Processing Method	Injection Molding	
RoHS Compliance	RoHS Compliant	
Uses	Metal Replacement	

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