

Solvay Specialty Polymers Veradel® 3320GF Polyethersulfone (PESU), 20% Glass Fiber

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. Features: Acid Resistant; Flame Retardant; Good Adhesion; Good Creep Resistance; Good Dimensional Stability; High Rigidity; High Tensile Strength; Hydrolysis Resistant; Medium Flow; Medium Molecular Weight Uses: Metal Replacement 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-20-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ASTM D792
Filler Content	20 %	20 %	Glass Fiber
Water Absorption	0.50 % @Time 86400 sec	0.50 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	

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 Åµm/m-Å°C	13.9 Åµin/in-Å°F	
Maximum Service Temperature, Air	190 Å°C	374 Å°F	Continuous Use
Deflection Temperature at 1.8 MPa (264 psi)	210 Å°C	410 Å°F	Annealed; ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 0.800 mm	@Thickness 0.0315 in	
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
Melt Temperature	340 - 380 Â°C	644 - 716 Â°F	
Mold Temperature	120 - 160 Â°C	248 - 320 Â°F	
Die Cooling Temperature	300 - 320 Â°C	572 - 608 Â°F	
Drying Temperature	150 Â°C @Time 10800 sec	302 Â°F @Time 3.00 hour	
Screw Speed	20 - 50 rpm	20 - 50 rpm	

Descriptive Properties	Value	Comments
Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Colors Available; Opaque	
Form	Pellets	
Processing Technique	Injection Molding	
RoHS Compliance	RoHS Compliant	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China