

Solvay Specialty Polymers Veradel® 3330GF Polyethersulfone (PESU) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyethersulfone (PES) , Polyethersulfone (PES), 30%Glass Fiber Filled

Material Notes:

Veradel 3330GF is a 30% 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 3330GF PESU is an opaque, grayish material in its natural form. However, it can be readily colored. This grade was formerly marketed as Gafone™ PESU. Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Veradel-3330GF-Polyethersulfone-PESU-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.58 g/cc	1.58 g/cc	ASTM D792
Filler Content	30 %	30 %	Glass Fiber Reinforcement
Water Absorption	0.40 % @Time 86400 sec	0.40 % @Time 24.0 hour	ASTM D570
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ASTM D955
Melt Flow	4.5 g/10 min @Load 2.16 kg, Temperature 343 °C	4.5 g/10 min @Load 4.76 lb, Temperature 649 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength	130 MPa	18900 psi	ASTM D638
Elongation at Break	1.9 %	1.9 %	ASTM D638
Tensile Modulus	8.62 GPa	1250 ksi	ASTM D638
Flexural Strength	179 MPa	26000 psi	ASTM D790
Flexural Modulus	8.62 GPa	1250 ksi	ASTM D790
Izod Impact, Notched	0.750 J/cm	1.41 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	31.0 µm/m-°C	17.2 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	216 °C	421 °F	Unannealed; ASTM D648

Thermal Properties	V-0 Metric	V-0 English	Comments
	@Thickness 0.787 mm	@Thickness 0.0310 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+16 ohm-cm	>= 1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	4.11	4.11	ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
	4.13	4.13	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	4.17	4.17	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	17.0 kV/mm	432 kV/in	ASTM D149
Dissipation Factor	0.0018	0.0018	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0019	0.0019	ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
	0.0094	0.0094	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Processing Properties	Metric	English	Comments
Melt Temperature	343 - 399 °C	649 - 750 °F	
Mold Temperature	149 - 163 °C	300 - 325 °F	
Drying Temperature	149 - 177 °C	300 - 351 °F	
Dry Time	2.50 - 4.00 hour	2.50 - 4.00 hour	

Descriptive Properties	Value	Comments
Agency Ratings	NSF 61	Tested at 82 °C (180 °F) (Commercial Hot). Only products bearing the NSF Mark are Certified.
Appearance	Colors Available	
	Opaque	

Availability	Africa & Middle East
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Descriptive Properties	Value	Comments
	Asia Pacific	
	Europe	
	North America	
	South America	
Features	Acid Resistant	
	Flame Retardant	
	Good Adhesion	
	Good Chemical Resistance	
	Good Creep Resistance	
	Good Dimensional Stability	
	Good Thermal Stability	
	Good Toughness	
	High Heat Resistance	
	High Rigidity	
	High Tensile Strength	
	Hydrolysis Resistant	
	Medium Flow	
	Medium Molecular Weight	
Forms	Pellets	
Generic	PESU	
Injection Rate	Fast	
Processing Method	Injection Molding	
RoHS Compliance	RoHS Compliant	
Screw Compression Ratio	2.0:1.0	
Uses	Appliance Components	
	Appliances	
	Automotive Electronics	

Descriptive Properties	Batteries Value	Comments
	Business Equipment	
	Electrical Parts	
	Electrical/Electronic Applications	
	Food Service Applications	
	Industrial Applications	
	Metal Replacement	
	Microwave Cookware	
	Plumbing Parts	
	Valves/Valve Parts	

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