

Veradel® 3320GF

polyethersulfone

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.

Genera

Material Status	 Commercial: Active 		
Availability	 Africa & Middle East Asia Pacific Europe	• Latin An • North Ai	
Filler / Reinforcement	• Glass Fiber, 20% Filler by Wei	jht	
Features	Acid ResistantCreep ResistantFlame RetardantGood AdhesionGood Dimensional Stability	HydrolysMedium	nsile Strength sis Resistant
Uses	 Metal Replacement 		
RoHS Compliance	 RoHS Compliant 		
Appearance	Colors Available	 Opaque)
Forms	• Pellets		
Processing Method	 Injection Molding 		
Physical Density / Specific Gravity	Тур	cal Value Unit	Test method ASTM D792
Molding Shrinkage - Flow		0.30 %	ASTM D955
Water Absorption (24 hr)		0.50 %	ASTM D570
Mechanical	Тур	cal Value Unit	Test method
Tensile Modulus		7000 MPa	ASTM D638
Tensile Strength		120 MPa	ASTM D638
Tensile Elongation (Break)		2.8 %	ASTM D638
Flexural Modulus		6500 MPa	ASTM D790
Flexural Strength		170 MPa	ASTM D790
Impact Notched Izod Impact	Тур	cal Value Unit 70 J/m	Test method ASTM D256
Notonea izaa impact		70 3/111	A31M D250

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Thermal	Typical Value	Unit	Test method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Annealed	210	°C	
Continuous Use Temperature ¹	190	°C	ASTM D794
CLTE - Flow	2.5E-5	cm/cm/°C	ASTM D696
Electrical	Typical Value	Unit	Test method
Surface Resistivity	1.0E+14	ohms	ASTM D257
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Arc Resistance	110	sec	ASTM D495
Comparative Tracking Index (CTI)	150	V	UL 746A
Flammability	Typical Value	Unit	Test method
Flame Rating (0.8 mm)	V-0		UL 94
Oxygen Index	42	%	ASTM D2863

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.

Injection	Typical Value Unit	
Drying Temperature	150 °C	
Drying Time	3.0 hr	
Processing (Melt) Temp	340 to 380 °C	
Mold Temperature	120 to 160 °C	
Screw Speed	20 to 50 rpm	
Extrusion	Typical Value Unit	
Die Temperature	300 to 320 °C	

Notes

Typical properties: these are not to be construed as specifications.

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¹ Expected value.