Veradel® 3330GF

Polyethersulfone

Solvay Specialty Polymers

Message:

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

General Information		
UL YellowCard	E36098-100036984	E36098-100168880
Filler / Reinforcement	Glass Fiber,30% Filler by Weight	
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	
Uses	Appliance Components	
	Appliances	
	Automotive Electronics	
	Batteries	
	Business Equipment	
	Electrical Parts	
	Electrical/Electronic Applications	
	Food Service Applications	
	Industrial Applications	
	Metal Replacement	
	Microwave Cookware	
	Plumbing Parts	
	Valves/Valve Parts	

Agency Ratings	NSF 61 3
RoHS Compliance	RoHS Compliant
Appearance	Colors Available Opaque

Forms	Pellets
Processing Method	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.58	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (343°C/2.16 kg)	4.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30	%	ASTM D955
Water Absorption (24 hr)	0.40	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	8620	MPa	ASTM D638
Tensile Strength	130	MPa	ASTM D638
Tensile Elongation (Break)	1.9	%	ASTM D638
Flexural Modulus	8620	MPa	ASTM D790
Flexural Strength	179	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	75	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	216	°C	ASTM D648
CLTE - Flow	3.1E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	> 1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	4.11		
1 kHz	4.13		
1 MHz	4.17		
Dissipation Factor			ASTM D150
60 Hz	1.9E-3		
1 kHz	1.8E-3		
1 MHz	9.4E-3		
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating [1] (0.787 mm)	V-0		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	149 to 177	°C	
Drying Time	2.5 to 4.0	hr	
Processing (Melt) Temp	343 to 399	°C	

Mold Temperature	149 to 163	°C
Injection Rate	Fast	
Screw Compression Ratio	2.0:1.0	

NOTE	
1.	These flammability ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions.

Recommended distributors for this material

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