Veradel® 3320GF

Polyethersulfone

Solvay Specialty Polymers

Message:

Veradel 3320GF is a 30% glass fiber reinforced polyethersulfone (PESU). After adding glass fiber to polyethersulfone, the rigidity, tensile strength, creep resistance, dimensional stability and chemical resistance of the material are greatly improved, while most other basic properties remain unchanged. The combination of structural properties and cost-effectiveness makes this resin an attractive metal substitute for many engineering applications. Natural Veradel 3320GF is a light gray opaque material that is easy to color. The brand was originally Gafone™PESU sales.

General Information		
UL YellowCard	E36098-100036984	E36098-100168879
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight	
Features	Good dimensional stability Rigidity, high High tensile strength Good creep resistance Good adhesion Medium liquidity Hydrolysis resistance acid resistance Medium molecular weight Flame retardancy	
Uses	Metal substitution	
RoHS Compliance	RoHS compliance	
Appearance	Opacity Available colors	
Forms	Particle	
Processing Method	Injection molding	

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.49	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.30	%	ASTM D955
Water Absorption (24 hr)	0.50	%	ASTM D570

Mechanical	Nominal 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	Nominal Value	Unit	Test Method

Notched Izod Impact	70	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Annealed)	210	°C	ASTM D648
Continuous Use Temperature [1]	190	°C	ASTM D794
CLTE - Flow	2.5E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal 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 746
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.800 mm)	V-0		UL 94
Oxygen Index	42	%	ASTM D2863
Additional Information			
1,按照理想工艺参数,23 + / - 2 °C和50 %RH的条件,对注射成型测试样本进行的测试,确认了这些属性.			
Injection	**Nominal Value**	**Unit**	
Drying Temperature	150	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	340 - 380	°C	
Mold Temperature	120 - 160	°C	
Screw Speed	20 - 50	rpm	
Extrusion	**Nominal Value**	**Unit**	
Die Temperature	300 - 320	°C	
NOTE			
1.	Expected value		

Recommended distributors for this material

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