Veradel® AG-330

Polyethersulfone

Solvay Specialty Polymers

Message:

Veradel® AG-330 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® AG-330 PESU is a grayish material in its natural form and it can be readily colored.
This grade was formerly marketed as Radel® A PESU
Black: Veradel® AG-330 BK 184
Natural: Veradel® AG-330 NT

General Information	
UL YellowCard	E36098-101722767
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Features	Acid Resistant
	Flame Retardant
	Food Contact Acceptable
	Good Adhesion
	Good Chemical Resistance
	Good Creep Resistance
	Good Dimensional Stability
	Good Strength
	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 51 3
RoHS Compliance	RoHS Compliant
Appearance	Black
	Colors Available
	Natural Color

Forms	Pellets
Processing Method	Injection Molding
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)
	Secant Modulus vs. Strain (ISO 11403-1)
	Viscosity vs. Shear Rate (ISO 11403-2)

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 (Break)	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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