

Solvay Specialty Polymers Veradel® 3430GF Polyethersulfone (PESU), 30% Glass Fiber

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

Material Notes:

Veradel® 3430GF 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. 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 Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Veradel-3430GF-Polyethersulfone-PESU-30-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in ³	ASTM D792
Filler Content	30 %	30 %	Glass Fiber
Water Absorption	0.40 % @Time 86400 sec	0.40 % @Time 24.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	
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 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	17.2 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	216 $\text{Å}^\circ\text{C}$	421 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 0.787 mm	V-0 @Thickness 0.0310 in	

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

Compliance Properties	Metric	English	Comments
NSF	Yes	Yes	NSF 61

Processing Properties	Metric	English	Comments
Melt Temperature	343 - 399 $\text{Å}^\circ\text{C}$	649 - 750 $\text{Å}^\circ\text{F}$	
Mold Temperature	149 - 163 $\text{Å}^\circ\text{C}$	300 - 325 $\text{Å}^\circ\text{F}$	
Drying Temperature	149 - 177 $\text{Å}^\circ\text{C}$ @Time 9000 - 14400	300 - 351 $\text{Å}^\circ\text{F}$	

Processing Properties	^{sec} Metric	@Time 2.50 - 4.00 hour English	Comments
Descriptive Properties			
Agency Ratings	NSF 61		
Availability	Africa & Middle East		
	Asia Pacific		
	Europe		
	Latin America		
	North America		
Color	Colors Available; Opaque		
Form	Pellets		
Injection Rate	Fast		
Processing Technique	Injection Molding		
RoHS Compliance	RoHS Compliant		
Screw Compression Ratio	2.0:1.0		

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