

## Solvay Specialty Polymers Udel® GF-130 Polysulfone (PSU), Glass Fiber

Category : Polymer , Thermoplastic , Polysulfone (PSU) , Polysulfone, 10% Glass Fiber Reinforced

### Material Notes:

Udel® GF-130, resin is a 30% glass fiber reinforced polysulfone compound. Glass fiber substantially increases the rigidity, tensile strength, creep resistance, dimensional stability and chemical resistance of the polysulfone resin. The high performance properties and attractive price make these resins particularly effective alternatives to metals in many engineering applications. Features: Acid Resistant; Alcohol Resistant; Alkali Resistant; Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; Good Strength; High Heat Resistance; High Rigidity; Hydrocarbon Resistant; Hydrolytically Stable Uses: Appliance Components; Appliances; Automotive Electronics; Electrical Parts; Electrical/Electronic Applications; Food Service Applications; Industrial Parts; Microwave Cookware; Piping; 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-Udel-GF-130-Polysulfone-PSU-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Udel-GF-130-Polysulfone-PSU-Glass-Fiber.php)

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	
Melt Flow	6.5 g/10 min @Load 2.16 kg, Temperature 343 °C	6.5 g/10 min @Load 4.76 lb, Temperature 649 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength	108 MPa	15700 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Tensile Modulus	8.69 GPa	1260 ksi	ASTM D638
Flexural Strength	154 MPa	22300 psi	ASTM D790
Flexural Modulus	7.58 GPa	1100 ksi	ASTM D790
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Tensile Impact Strength	113 kJ/m <sup>2</sup>	53.8 ft-lb/in <sup>2</sup>	ASTM D1822

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	181 °C	358 °F	Unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 3.18 mm	V-0 @Thickness 0.125 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+16 ohm-cm	2.00e+16 ohm-cm	ASTM D257
Dielectric Constant	3.47	3.47	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	3.48	3.48	ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Dielectric Strength	19.0 kV/mm	483 kV/in	ASTM D149
Dissipation Factor	0.00070	0.00070	ASTM D150
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Dissipation Factor	0.0050	0.0050	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Compliance Properties	Metric	English	Comments
NSF	Yes	Yes	NSF 61

Processing Properties	Metric	English	Comments
Melt Temperature	343 - 399 Â°C	649 - 750 Â°F	
Mold Temperature	121 - 163 Â°C	250 - 325 Â°F	
Drying Temperature	163 - 191 Â°C	325 - 376 Â°F	
	@Time 10800 - 14400 sec	@Time 3.00 - 4.00 hour	
Back Pressure	0.345 - 0.689 MPa	50.0 - 99.9 psi	

Descriptive Properties	Value	Comments
Agency Ratings	ISO 10993; ISO 10993-Part 1	
Availability	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Black; Natural; Opaque	
Form		

Descriptive Properties	Pellets Value	Comments
Injection Rate	Fast	
Processing Technique	Extrusion; Injection Molding	
RoHS Compliance	RoHS Compliant	
Screw Compression Ratio	2.0:1.0	

## Contact Songhan Plastic Technology Co.,Ltd.

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