

Udel® GF-130

polysulfone

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.

• Black: Udel® GF-130 BK 937

General

Revised: 2/3/2016

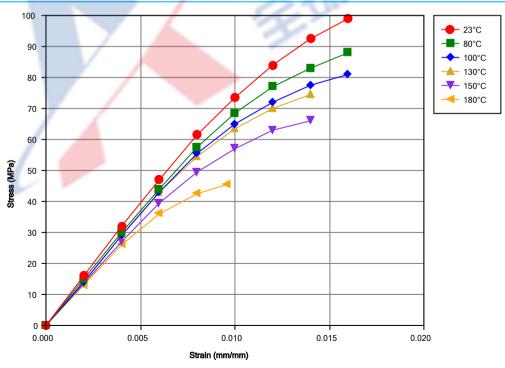
Material Status	Commercial: Active		
Availability	Asia Pacific Latin America		L.
Availability	• Europe	 North America 	
Filler / Reinforcement	Glass Fiber		
Features	 Acid Resistant Alcohol Resistant Alkali Resistant Chemical Resistant Creep Resistant Good Dimensional Stability 	 Good Strength High Heat Resistance High Rigidity Hydrocarbon Resistan Hydrolytically Stable 	THE REAL PROPERTY.
Uses	 Appliance Components Appliances Automotive Electronics Electrical Parts Electrical/Electronic Applications Food Service Applications 	Industrial PartsMicrowave CookwarePipingPlumbing PartsValves/Valve Parts	
Agency Ratings	• ISO 10993	• NSF STD-61 ¹	
RoHS Compliance	 RoHS Compliant 		
Appearance	• Black	 Opaque 	
Forms	• Pellets		
Processing Method	• Extrusion	 Injection Molding 	
Physical	Турі	cal Value Unit	Test method
Specific Gravity		1.49	
Melt Mass-Flow Rate (MFR) (343°C/2.16 kg)		6.5 g/10 min	ASTM D1238
Molding Shrinkage - Flow		0.20 %	ASTM D955
Mechanical	Турі	cal Value Unit	Test method
Tensile Modulus			ASTM D638
Tensile Strength		108 MPa	ASTM D638
Tensile Elongation (Break)		2.0 %	ASTM D638
Flexural Modulus		7580 MPa	ASTM D790
Flexural Strength		154 MPa	ASTM D790
Impact	Typi	cal Value Unit	Test method
Notched Izod Impact		69 J/m	ASTM D256
Tensile Impact Strength		113 kJ/m²	ASTM D1822

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Thermal	Typical Value	Unit	Test method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	181	°C	
Electrical	Typical Value	Unit	Test method
Volume Resistivity	2.0E+16	ohms·cm	ASTM D257
Dielectric Strength	19	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	3.48		
1 MHz	3.47		
Dissipation Factor			ASTM D150
60 Hz	7.0E-4		
1 MHz	5.0E-3	- Q1	
Flammability	Typical Value	Unit	Test method
Flame Rating ² (3.2 mm)	V-0	N L	UL 94
Injection	Typical Value	Unit	1500
Drying Temperature	163 to 191	°C	
Drying Time	3.0 to 4.0	hr	120 m
Processing (Melt) Temp	343 to 399	°C	100
Mold Temperature	121 to 163	°C	
Injection Rate	Fast	13/	
Back Pressure	0.345 to 0.689	MPa	
Screw Compression Ratio	2.0:1.0		

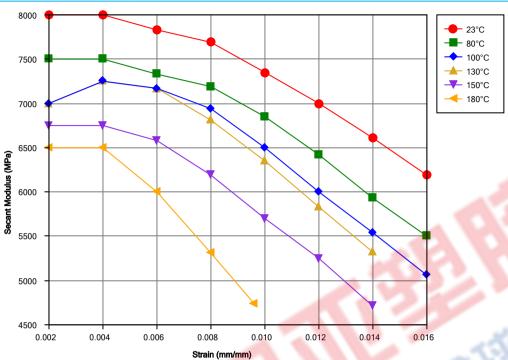
Isothermal Stress vs. Strain (ISO 11403-1)



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Secant Modulus vs. Strain (ISO 11403-1)



Notes

Typical properties: these are not to be construed as specifications.

- ¹ Tested at 82 °C (180 °F) (Commercial Hot)
- ² These flammability ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions.

www.solvay.com

SpecialtyPolymers.EMEA@solvay.com | Europe, Middle East and Africa SpecialtyPolymers.Americas@solvay.com | Americas SpecialtyPolymers.Asia@solvay.com | Asia and Australia

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