



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

Material Status	• Commercial: Active	
Availability	• Asia Pacific • Europe	• Latin America • 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 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
Agency Ratings	• ISO 10993	• NSF STD-61 ¹
RoHS Compliance	• RoHS Compliant	
Appearance	• Black	• Opaque
Forms	• Pellets	
Processing Method	• Extrusion	• Injection Molding

Physical

	Typical Value	Unit	Test method
Density / Specific Gravity	1.49		ASTM D792
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

	Typical Value	Unit	Test method
Tensile Modulus	8690	MPa	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

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Impact	Typical Value	Unit	Test method
Notched Izod Impact	69	J/m	ASTM D256
Tensile Impact Strength	113	kJ/m ²	ASTM D1822

Thermal	Typical Value	Unit	Test method
Deflection Temperature Under Load 1.8 MPa, Unannealed	181	°C	ASTM D648

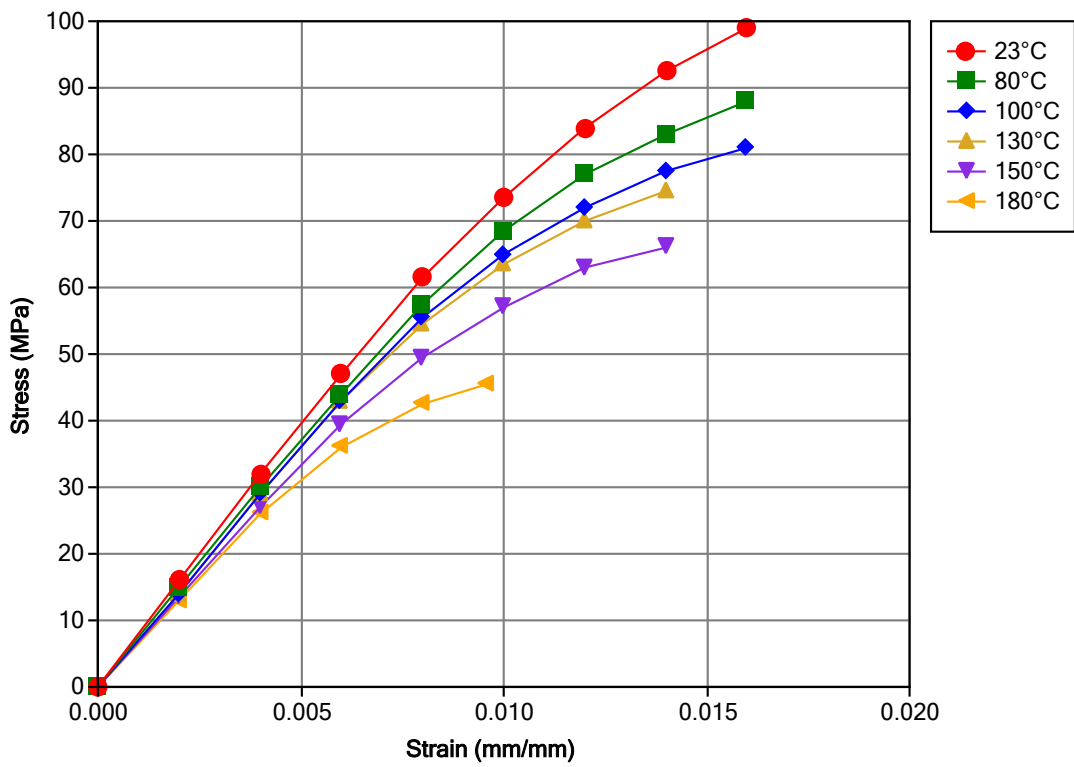
Electrical	Typical Value	Unit	Test method
Volume Resistivity	2.0E+16	ohms-cm	ASTM D257
Dielectric Strength	19	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	3.48		
1 MHz	3.47		
Dissipation Factor			ASTM D150
60 Hz	7.0E-4		
1 MHz	5.0E-3		

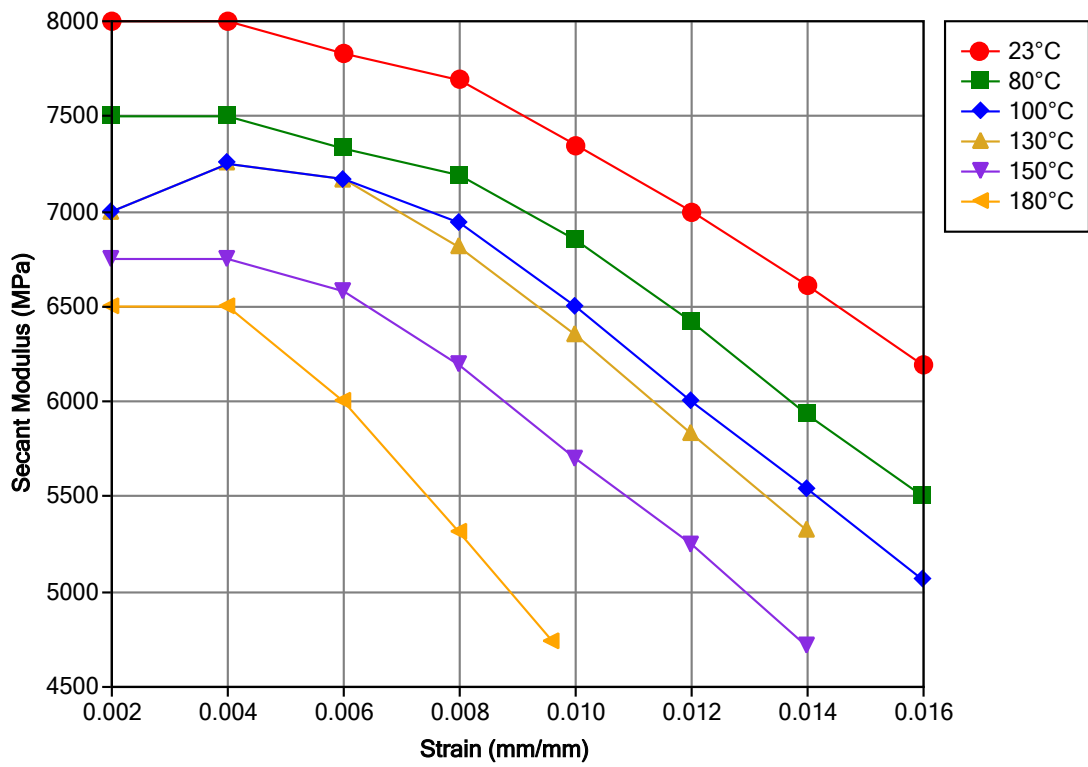
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Flammability	Typical Value	Unit	Test method
Flame Rating ² (3.2 mm)	V-0		UL 94

Injection	Typical Value	Unit
Drying Temperature	163 to 191	°C
Drying Time	3.0 to 4.0	hr
Processing (Melt) Temp	343 to 399	°C
Mold Temperature	121 to 163	°C
Injection Rate	Fast	
Back Pressure	0.345 to 0.689	MPa
Screw Compression Ratio	2.0:1.0	





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.



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