

Solvay Specialty Polymers Supradel® HTS-2630 High Temperature Sulfone Resin (discontinued **)

Category : Polymer , Thermoplastic , Polysulfone (PSU) , Polysulfone, 30% Glass Fiber Reinforced

Material Notes:

SUPRADEL HTS-2630 is a 30% glass-fiber reinforced high-temperature, high-performance, amorphous, sulfone polymer. In addition to exceptional thermal performance, this resin has the other performance features and attributes traditionally known for sulfone polymers. These features include good strength, stiffness, and dielectric properties over a wide temperature range, resistance to hydrolysis by hot water and steam environments, excellent resistance to acids and bases, and inherent flammability resistance. The resin also offers a high degree of dimensional control during fabrication and dimensional stability during part service life. SUPRADEL HTS-2630 resin is easily amenable to fabrication by injection molding, and other thermoplastic fabrication techniques. By virtue of its very high temperature performance and the unique combination of other engineering attributes, SUPRADEL HTS-2630 resin constitutes a good candidate for metal replacement as well as non-thermoplastic resin replacement in a wide range of engineering applications. SUPRADEL HTS-2630 resin is available in natural and black. Information provided by Solvay Advanced Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Supradel-HTS-2630-High-Temperature-Sulfone-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.55 g/cc	1.55 g/cc	ASTM D792
Water Absorption	0.40 %	0.40 %	At 24 hours; ASTM D570
Water Absorption at Saturation	1.5 %	1.5 %	ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955
Melt Flow	5.5 g/10 min @Load 5.00 kg, Temperature 400 °C	5.5 g/10 min @Load 11.0 lb, Temperature 752 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	112 MPa	16300 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Tensile Modulus	8.96 GPa	1300 ksi	ASTM D638
Flexural Strength	164 MPa	23800 psi	ASTM D790
Flexural Modulus	7.58 GPa	1100 ksi	ASTM D790
Izod Impact, Notched	0.641 J/cm	1.20 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.34 J/cm	10.0 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	260 °C	500 °F	Annealed 0.125 inch thick specimen; ASTM D648
Glass Transition Temp, Tg	265 °C	509 °F	

Processing Properties	Metric	English	Comments
Melt Temperature	390 - 410 °C	734 - 770 °F	Stock Temperature
Mold Temperature	>= 180 °C	>= 356 °F	
	190 - 210 °C	374 - 410 °F	Long flow or thin wall parts or for low residual stress
Drying Temperature	150 °C	302 °F	2.5 hours for injection molding
	170 °C	338 °F	> 4 hours hopper drying with desiccated air inlet for extrusion

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