

Solvay Specialty Polymers Supradel® HTS-2420 High Temperature Sulfone Resin (discontinued **)

Category : Polymer , Thermoplastic , Polysulfone (PSU) , Polysulfone, 20% Glass Fiber Reinforced

Material Notes:

SUPRADEL HTS-2420 is a 20% glass-fiber reinforced high-temperature, high-performance, amorphous, sulfone polymer. With a glass transition temperature of 245°C and a heat deflection temperature of 240°C, SUPRADEL HTS-2420 resin this resin extends the thermal capability range available in other sulfone polymers. The resin is completely amorphous and fully thermoplastic allowing easy melt fabrication by means of operations such as injection molding and extrusion. Along with its high thermal performance capabilities, SUPRADEL HTS-2420 resin also has a long list of high-performance attributes which include excellent hydrolytic stability, resistance to acids and bases, and inherent flame retardance. SUPRADEL HTS-2420 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-2420 resin constitutes a good candidate for metal replacement as well as non-thermoplastic resin replacement in a wide range of engineering applications. SUPRADEL HTS-2420 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-2420-High-Temperature-Sulfone-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.46 g/cc	1.46 g/cc	ASTM D792
Water Absorption	0.30 %	0.30 %	At 24 hours; ASTM D570
Water Absorption at Saturation	1.3 %	1.3 %	ASTM D570
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955
Melt Flow	11 g/10 min @Load 5.00 kg, Temperature 400 °C	11 g/10 min @Load 11.0 lb, Temperature 752 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	114 MPa	16500 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Tensile Modulus	6.27 GPa	910 ksi	ASTM D638
Flexural Strength	176 MPa	25500 psi	ASTM D790
Flexural Modulus	6.07 GPa	880 ksi	ASTM D790
Izod Impact, Notched	0.747 J/cm	1.40 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.94 J/cm	13.0 ft-lb/in	ASTM D4812

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	240 °C	464 °F	Annealed 0.125 inch thick specimen; ASTM D648
Glass Transition Temp, Tg	245 °C	473 °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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China