Solvay Specialty Polymers Supradel® HTS-2601 High Temperature Sulfone Resin (discontinued **)

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

Supradel HTS-2601 is a high-temperature high-performance amorphous sulfone polymer designed as a base resin for reinforced thermoplastic products. This exceptional thermal performance is available in Supradel HTS-2601 resin along with all 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. HTS-2601 is a high flowing grade of Supradel HTS resin. It 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, reinforced products based on Supradel HTS-2601 resin constitute good candidates for metal replacement as well as non-thermoplastic resin replacement in a wide range of engineering applications. In its natural state, Supradel HTS-2601 resin is transparent with an amber/brown color.Information provided by Solvay Advanced Polymers

Order this product through the following link:
http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Supradel-HTS-2601-High-Temperature-Sulfone-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Water Absorption	0.50 %	0.50 %	At 24 hours; ASTM D570
Water Absorption at Saturation	1.5 %	1.5 %	ASTM D570
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	ASTM D955
Melt Flow	17 g/10 min @Load 5.00 kg, Temperature 400 °C	17 g/10 min @Load 11.0 lb, Temperature 752 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	127	127	ASTM D785
Tensile Strength at Break	79.3 MPa	11500 psi	ASTM D638
Elongation at Break	15 %	15 %	ASTM D638
Elongation at Yield	7.5 %	7.5 %	ASTM D638
Tensile Modulus	2.34 GPa	340 ksi	ASTM D638
Flexural Strength	93.1 MPa	13500 psi	ASTM D790
Flexural Modulus	2.21 GPa	320 ksi	ASTM D790

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	1.33 J/cm	2.50 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	255 °C	491 °F	Annealed 0.125 inch thick specimen; ASTM D648
Glass Transition Temp, Tg	265 °C	509 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.66	1.66	ASTM D542

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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