

Solvay Specialty Polymers Supradel® HTS-2400 High Temperature Sulfone Resin (discontinued **)

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

SUPRADEL HTS-2400 is a high-temperature, high-performance, amorphous, sulfone polymer. With a glass transition temperature of 245°C and heat deflection temperature of 235°C, this resin extends the thermal capability range available to design engineers today 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-2400 resin also has a long list of high-performance attributes which include excellent hydrolytic stability, resistance to acids and bases, and inherent flame retardance. The ease of melt fabrication, coupled with the completely amorphous character assures tight dimensional control during injection molding of precision parts and components. The versatile performance profile of SUPRADEL HTS-2400 resin makes it a good candidate for metal replacement or the replacement of difficult-to-process thermoplastics in a wide range of engineering applications. In its natural state, Supradel HTS-2400 resin is transparent with an amber color. Information provided by Solvay Advanced Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Supradel-HTS-2400-High-Temperature-Sulfone-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Water Absorption	0.40 %	0.40 %	At 24 hours; ASTM D570
Water Absorption at Saturation	1.4 %	1.4 %	ASTM D570
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	ASTM D955
Melt Flow	15 g/10 min @Load 5.00 kg, Temperature 400 °C	15 g/10 min @Load 11.0 lb, Temperature 752 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.8 MPa	11000 psi	ASTM D638
Elongation at Break	40 %	40 %	ASTM D638
Elongation at Yield	7.5 %	7.5 %	ASTM D638
Tensile Modulus	2.34 GPa	340 ksi	ASTM D638
Flexural Strength	94.5 MPa	13700 psi	ASTM D790
Flexural Modulus	2.32 GPa	336 ksi	ASTM D790
Izod Impact, Notched	4.27 J/cm	8.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	235 °C	455 °F	Annealed 0.125 inch thick specimen; ASTM D648
Glass Transition Temp, Tg	245 °C	473 °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	>= 160 °C	>= 320 °F	
	170 - 190 °C	338 - 374 °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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