

Solvay Specialty Polymers Supradel® HTS-2600 High Temperature Sulfone Resin (discontinued **)

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

SUPRADEL HTS-2600 is a 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-2600 resin is easily amenable to fabrication by injection molding, extrusion and other thermoplastic fabrication techniques. By virtue of its very high temperature performance and the unique combination of other engineering attributes, SUPRADEL HTS-2600 resin constitutes a good candidate for metal replacement as well as non-thermoplastic resin replacement in a wide range of engineering applications. In its natural state, SUPRADEL HTS-2600 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-2600-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 | 6.5 g/10 min @Load 5.00 kg, Temperature 400 °C | 6.5 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 | 20 % | 20 % | 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 |

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