

Solvay Specialty Polymers Ryton® QC220P Polyphenylene Sulfide (PPS)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS), Unreinforced, Extruded

Material Notes:

Ryton® PPS Fiber Grade Resins are high molecular weight polyphenylene sulfide polymers suitable for monofilament and/or multifilament fiber extrusion. They exhibit excellent thermal stability and chemical resistance. Features: Good Chemical Resistance; Good Thermal Stability; High Molecular Weight. Additional Properties: Ash Content - ISO 3451-1 0.3 wt%; Color L - 90.0; Volatiles - (150°C): < 0.3 wt%; Weight Loss on Heating - (300°C): < 0.50 wt%. Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ryton-QC220P-Polyphenylene-Sulfide-PPS.php

| Physical Properties | Metric | English | Comments |
|--------------------------------|--|--|-------------------------|
| Density | 1.35 g/cc | 0.0488 lb/in ³ | ASTM D792 |
| Water Absorption at Saturation | 0.050 % | 0.050 % | ASTM D570 |
| Melt Flow | 170 g/10 min @Load 5.00 kg, Temperature 316 °C | 170 g/10 min @Load 11.0 lb, Temperature 601 °F | Procedure B; ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|----------|-----------|-----------|
| Tensile Strength | 85.0 MPa | 12300 psi | ASTM D638 |
| Elongation at Break | 10 % | 10 % | ASTM D638 |

| Thermal Properties | Metric | English | Comments |
|--|---|--|-----------------------|
| CTE, linear, Parallel to Flow | 50.0 µm/m-°C @Temperature -50.0 - 50.0 °C | 27.8 µin/in-°F @Temperature -58.0 - 122 °F | 1 |
| Melting Point | 285 °C | 545 °F | ISO 11357-3 |
| Deflection Temperature at 1.8 MPa (264 psi) | 105 °C | 221 °F | Unannealed; ASTM D648 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|---------------------------------|---------------------------------|-----------|
| Volume Resistivity | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | ASTM D257 |
| Dielectric Constant | 3.2 @Frequency 1.00e+6 Hz | 3.2 @Frequency 1.00e+6 Hz | ASTM D150 |
| Dielectric Strength | 24.0 kV/mm | 610 kV/in | ASTM D149 |
| | 0.0020 | 0.0020 | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------------------|--------------------------|----------|
| | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz | |

| Descriptive Properties | Value | Comments |
|------------------------|--------------------|----------|
| Availability | Asia Pacific | |
| | Europe | |
| | Latin America | |
| | North America | |
| Form | Pellets | |
| Processing Technique | Filament Extrusion | |
| RoHS Compliance | RoHS Compliant | |

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