

Solvay Specialty Polymers Ryton® QC160N Polyphenylene Sulfide (PPS)

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

Material Notes:

Ryton® QC160N (granular powder) unfilled polyphenylene sulfide exhibits excellent thermal stability and chemical resistance and is suitable for thermoplastic extrusion processes. Features: Good Chemical Resistance; Good Thermal Stability Additional Properties: Ash Content - ISO 3451-1 0.3 wt%; Volatiles - (150°C): < 0.3 wt% Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ryton-QC160N-Polyphenylene-Sulfide-PPS.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ASTM D792
Water Absorption	0.050 % @Time 86400 sec	0.050 % @Time 24.0 hour	ISO 62
Melt Flow	45 g/10 min @Load 5.00 kg, Temperature 316 °C	45 g/10 min @Load 11.0 lb, Temperature 601 °F	Procedure B; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Stress	75.0 MPa	10900 psi	ISO 527-2
Elongation at Break	6.0 %	6.0 %	ISO 527-2
Tensile Modulus	3.40 GPa	493 ksi	ISO 527-2
Flexural Strength	130 MPa	18900 psi	ISO 178
Flexural Modulus	3.40 GPa	493 ksi	ISO 178
Izod Impact, Notched	0.530 J/cm @Thickness 3.18 mm	0.993 ft-lb/in @Thickness 0.125 in	ASTM D256
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	Notch A; ISO 180

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	2
	120 µm/m-°C @Temperature 100 - 200 °C	66.7 µin/in-°F @Temperature 212 - 392 °F	2

Thermal Properties	Metric	English	Comments
Melting Point	280 Â°C	536 Â°F	ISO 11357-3
Deflection Temperature at 0.46 MPa (66 psi)	160 Â°C	320 Â°F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	95.0 Â°C	203 Â°F	Unannealed; ASTM D648
Vicat Softening Point	>= 180 Â°C	>= 356 Â°F	ISO 306
Glass Transition Temp, Tg	90.0 Â°C	194 Â°F	ISO 11357-2
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	44 %	44 %	ASTM D2863

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

Descriptive Properties	Value	Comments
Availability	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Natural	
Form	Powder	
Processing Technique	Extrusion	
RoHS Compliance	RoHS Compliant	

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