

Solvay Specialty Polymers Ryton® R-4-280NA Polyphenylene Sulfide (PPS), Glass Fiber

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 40% Glass Fiber Filler

Material Notes:

Ryton® R-4-280NA 40% glass fiber reinforced polyphenylene sulfide compound provides a combination of enhanced mechanical strength and good flow for injection molding. Features: Good Chemical Resistance; Good Processability; High Strength. Additional Properties: Heat Deflection Temperature - ASTM D648 265 °C; Insulation Resistance - (90°C): 1.00E+12 ohm; Mold Shrinkage - 0.20 %; Mold Shrinkage - 0.50 %; Temperature Index - UL 746B 200 to 220 °C. Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ryton-R-4-280NA-Polyphenylene-Sulfide-PPS-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.68 g/cc	0.0607 lb/in ³	ISO 1183
Water Absorption	0.020 % @Time 86400 sec	0.020 % @Time 24.0 hour	ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength	200 MPa	29000 psi	ASTM D638
Elongation at Break	1.8 %	1.8 %	ASTM D638
Flexural Strength	290 MPa	42100 psi	ASTM D790
Flexural Modulus	14.0 GPa	2030 ksi	ISO 178
Compressive Strength	285 MPa	41300 psi	ASTM D695
Izod Impact, Notched (ISO)	9.00 kJ/m ²	4.28 ft-lb/in ²	Notch A; ISO 180
Izod Impact, Unnotched (ISO)	40.0 kJ/m ²	19.0 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	10.0 µm/m-°C @Temperature 100 - 200 °C	5.56 µin/in-°F @Temperature 212 - 392 °F	2; ISO 11359-2
	15.0 µm/m-°C @Temperature -50.0 - 50.0 °C	8.33 µin/in-°F @Temperature -58.0 - 122 °F	2; ISO 11359-2
CTE, linear, Transverse to Flow	40.0 µm/m-°C @Temperature -50.0 - 50.0 °C	22.2 µin/in-°F @Temperature -58.0 - 122 °F	ISO 11359-2

Thermal Properties	Metric	English	Comments
	@Temperature 100 - 200 Â°C	@Temperature 212 - 392 Â°F	ISO 11359-2
Thermal Conductivity	0.320 W/m-K	2.22 BTU-in/hr-ftÂ²-Â°F	ISO 8302
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	5VA	5VA	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	3.9	3.9	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.0	4.0	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	22.0 kV/mm	559 kV/in	ASTM D149
Dissipation Factor	0.0020	0.0020	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0020	0.0020	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Arc Resistance	130 sec	130 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	UL 746

Descriptive Properties	Value	Comments
Availability	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Natural	
Form	Pellets	

Descriptive Properties	Value	Comments
RoHS Compliance	RoHS Compliant	

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