

Solvay Specialty Polymers Ryton® R-4-200NA Polyphenylene Sulfide Compound (Unverified Data**)

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

Material Notes:

Natural Color Polyphenylene Sulfide Compound Ryton® R-4-200NA is an advanced 40% fiberglass reinforced polyphenylene sulfide compound developed to provide high strength, fast cycles, and low maintenance molding using conventional molding equipment. Applications: Secondary Heat Exchanger Header Comments: Test specimen molding conditions: Stock Temperature, 315-345°C; Mold Temperature, 135°C; ASTM Values Converted to SI Units Data provided by Chevron Phillips Chemical Company LP. Solvay Specialty Polymers has acquired the Ryton product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ryton-R-4-200NA-Polyphenylene-Sulfide-Compound-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 lb/in ³	ASTM D792
Water Absorption	0.050 %	0.050 %	ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	102 mm X 102 mm X 3.2 mm Plaques, Edge Gated
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	Measured on 102 mm X 102 mm X 3.2 mm Plaques, Edge Gated

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	195 MPa	28300 psi	ASTM D638
Elongation at Break	1.6 %	1.6 %	ASTM D638
Flexural Yield Strength	250 MPa	36300 psi	ASTM D790
Flexural Modulus	15.0 GPa	2180 ksi	ASTM D790
Compressive Yield Strength	275 MPa	39900 psi	ASTM D695
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.40 J/cm	12.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	12.0 µm/m-°C	6.67 µin/in-°F	Axial; ASTM E831
	@Temperature 100 - 200 °C	@Temperature 212 - 392 °F	
	18.0 µm/m-°C	10.0 µin/in-°F	

Thermal Properties	Metric @Temperature -50.0 - 30.0 °C	English @Temperature -58.0 - 122 °F	Comments Axiol- ASTM E831
CTE, linear, Transverse to Flow	45.0 µm/m-°C @Temperature 20.0 °C	25.0 µin/in-°F @Temperature 68.0 °F	ASTM E831
	95.0 µm/m-°C @Temperature 100 - 200 °C	52.8 µin/in-°F @Temperature 212 - 392 °F	ASTM E831
Thermal Conductivity	0.330 W/m-K	2.29 BTU-in/hr-ft²-°F	
Maximum Service Temperature, Air	200 °C	392 °F	UL Temperature Index 200 / 220 per UL 746B
Deflection Temperature at 1.8 MPa (264 psi)	>= 260 °C	>= 500 °F	Annealed 2 hr @ 200°C; ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Dielectric Constant	4.0 @Frequency 1000 Hz	4.0 @Frequency 1000 Hz	ASTM D150
	4.0 @Frequency 1e+6 Hz	4.0 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149
Dissipation Factor	0.0020 @Frequency 1000 Hz	0.0020 @Frequency 1000 Hz	ASTM D150
	0.0020 @Frequency 1e+6 Hz	0.0020 @Frequency 1e+6 Hz	ASTM D150
Arc Resistance	125 sec	125 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	UL 746A

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