

Chevron Phillips Ryton® PR09-60 Polyphenylene Sulfide Compound, Annealed 2 hours at 200°C (discontinued **)&l

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS); Molded

Material Notes:

Polyphenylene Sulfide Compound Ryton® PR09-60 Annealed 2 hours at 200°C is pelletized unfilled high molecular weight polyphenylene sulfide resin suitable for extrusion or injection molding. 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. This product was discontinued prior to the acquisition and is listed under the Chevron Phillips name for historical purposes.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chevron-Phillips-Ryton-PR09-60-Polyphenylene-Sulfide-Compound-Annealed-2-hours-at-200C-nbspdiscontinued-l.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ASTM D792
Water Absorption	0.050 %	0.050 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	85.0 MPa	12300 psi	ASTM D638
Elongation at Break	2.5 %	2.5 %	ASTM D638
Flexural Yield Strength	130 MPa	18900 psi	ASTM D790
Flexural Modulus	3.80 GPa	551 ksi	ASTM D790
Izod Impact, Unnotched	8.00 J/cm	15.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	53.0 µm/m-°C	29.4 µin/in-°F	Axial; ASTM E831
	@Temperature -50.0 - 50.0 °C	@Temperature -58.0 - 122 °F	
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft ² -°F	
Deflection Temperature at 1.8 MPa (264 psi)	120 °C	248 °F	ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257

Electrical Properties	1.00e+12 ohm Metric	1.00e+12 ohm English	Comments
	@Temperature 90.0 °C	@Temperature 194 °F	
Dielectric Constant	3.1	3.1	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	3.1	3.1	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	24.0 kV/mm	610 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 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	50 sec	50 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	UL 746A

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