

Chevron Phillips Ryton® PR09-60 Polyphenylene Sulfide Compound (discontinued **)

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

Material Notes:

Polyphenylene Sulfide Compound Ryton® PR09-60 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-nbspdiscontinued-.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	60.0 MPa	8700 psi	ASTM D638
Elongation at Break	30 %	30 %	ASTM D638
Flexural Yield Strength	95.0 MPa	13800 psi	ASTM D790
Flexural Modulus	3.10 GPa	450 ksi	ASTM D790
Izod Impact, Unnotched	13.0 J/cm	24.4 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	53.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	29.4 $\mu\text{in}/\text{in}\cdot\text{°F}$	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)	75.0 °C	167 °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
	1.00e+12 ohm	1.00e+12 ohm	

Surface Resistance Electrical Properties	Metric @ Temperature 90.0 °C	English @ Temperature 194 °F	95% RH- 48 hrs Comments
Dielectric Constant	3.1	3.1	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	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	
Dissipation Factor	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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