

Chevron Phillips Ryton® R-7 Polyphenylene Sulfide Compound (discontinued **)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS), Mineral/Glass-Fiber Filled

Material Notes:

Natural Color Polyphenylene Sulfide Compound Ryton® R-7 is polyphenylene sulfide compounded with glass fibers and mineral fibers to produce an injection moldable high temperature engineering compound with the inherent cost savings of thermoplastics. Applications:

Switches 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-R-7-Polyphenylene-Sulfide-Compound-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.90 g/cc	0.0686 lb/in ³	ASTM D792
Water Absorption	0.030 %	0.030 %	ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	102 mm X 102 mm X 3.2 mm Plaques, Edge Gated
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	Measured on 102 mm X 102 mm X 3.2 mm Plaques, Edge Gated

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	135 MPa	19600 psi	ASTM D638
Elongation at Break	0.90 %	0.90 %	ASTM D638
Modulus of Elasticity	17.2 GPa	2500 ksi	
Flexural Yield Strength	215 MPa	31200 psi	ASTM D790
Flexural Modulus	18.0 GPa	2610 ksi	ASTM D790
Compressive Yield Strength	240 MPa	34800 psi	ASTM D695
Poissons Ratio	0.357	0.357	
Shear Modulus	6.34 GPa	920 ksi	Calculated
Izod Impact, Notched	0.750 J/cm	1.41 ft-lb/in	ASTM D256
Izod Impact, Unnotched	2.90 J/cm	5.43 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
	11.0 µm/m-°C	6.11 µin/in-°F	

CTE linear Thermal Properties	Metric @ Temperature 100 - 200 °C	English @ Temperature 212 - 392 °F	Axial: ASTM E831 Comments
	17.0 µm/m-°C	9.44 µin/in-°F	Axial; ASTM E831
	@Temperature -50.0 - 50.0 °C	@Temperature -58.0 - 122 °F	
CTE, linear, Transverse to Flow	31.0 µm/m-°C	17.2 µin/in-°F	ASTM E831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	70.0 µm/m-°C	38.9 µin/in-°F	ASTM E831
	@Temperature 100 - 200 °C	@Temperature 212 - 392 °F	
Thermal Conductivity	0.600 W/m-K	4.16 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	200 °C	392 °F	UL Temperature Index 200 / 220 per UL746B
Deflection Temperature at 1.8 MPa (264 psi)	>= 260 °C	>= 500 °F	Annealed 2 hr @ 200°C; ASTM D665
Flammability, UL94	5VA	5VA	UL94 V-0/5VA

Electrical Properties	Metric	English	Comments
Electrical Resistivity	5.00e+15 ohm-cm	5.00e+15 ohm-cm	ASTM D257
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	95% RH, 48 hrs
	@Temperature 90.0 °C	@Temperature 194 °F	
Dielectric Constant	4.0	4.0	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	5.1	5.1	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	18.0 kV/mm	457 kV/in	ASTM D149
Dissipation Factor	0.0010	0.0010	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.060	0.060	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Arc Resistance	150 sec	150 sec	ASTM D495
Comparative Tracking Index	225 V	225 V	UL 746A

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