

Chevron Phillips Ryton® BR42C Polyphenylene Sulfide Compound (discontinued **)

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

Material Notes:

Black Polyphenylene Sulfide Compound Ryton® BR42C is a 40% fiberglass reinforced polyphenylene sulfide compound specially formulated to have a low coefficient of friction for use in low surface friction and wear applications. 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-BR42C-Polyphenylene-Sulfide-Compound-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.75 g/cc	0.0632 lb/in ³	ASTM D792
Water Absorption	0.050 %	0.050 %	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	0.0050 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	165 MPa	23900 psi	ASTM D638
Elongation at Break	1.5 %	1.5 %	ASTM D638
Flexural Yield Strength	255 MPa	37000 psi	ASTM D790
Flexural Modulus	15.0 GPa	2180 ksi	ASTM D790
Compressive Yield Strength	205 MPa	29700 psi	ASTM D695
Izod Impact, Notched	0.800 J/cm	1.50 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	11.0 µm/m-°C	6.11 µin/in-°F	Axial; ASTM E831
	@Temperature 100 - 200 °C	@Temperature 212 - 392 °F	
	16.0 µm/m-°C	8.89 µin/in-°F	Axial; ASTM E831
	@Temperature -50.0 -	@Temperature -58.0 -	

Thermal Properties	50.0 °C Metric	122 °F English	Comments
CTE, linear, Transverse to Flow	43.0 µm/m-°C	23.9 µin/in-°F	ASTM E831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	98.0 µm/m-°C	54.4 µin/in-°F	ASTM E831
	@Temperature 100 - 200 °C	@Temperature 212 - 392 °F	
Thermal Conductivity	0.330 W/m-K	2.29 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	180 °C	356 °F	UL Temperature Index per UL746B
Deflection Temperature at 1.8 MPa (264 psi)	>= 260 °C	>= 500 °F	Annealed 2 hr @ 200°C; ASTM D655
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	ASTM D257
Dielectric Constant	4.0	4.0	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	4.0	4.0	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149
Dissipation Factor	0.0030	0.0030	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.0030	0.0030	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	150 V	150 V	UL 746A

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