

Solvay Specialty Polymers Ryton® R-7-120BL Polyphenylene Sulfide Compound (Unverified Data**)

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

Material Notes:

Black Polyphenylene Sulfide Compound Ryton® R-7-120BL is an advanced glass/mineral filled polyphenylene sulfide compound developed to provide good weldline strength and low maintenance molding using conventional molding equipment. 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-7-120BL-Polyphenylene-Sulfide-Compound-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.95 g/cc	0.0704 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	0.0060 cm/cm	0.0060 in/in	Measured on 102 mm X 102 mm X 3.2 mm Plaques, Edge Gated

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	130 MPa	18900 psi	ISO 527
Elongation at Break	0.90 %	0.90 %	ISO 527
Flexural Yield Strength	200 MPa	29000 psi	ISO 178
Flexural Modulus	17.0 GPa	2470 ksi	ISO 178
Compressive Yield Strength	240 MPa	34800 psi	ASTM D695
Izod Impact, Unnotched	1.60 J/cm	3.00 ft-lb/in	J/cm ² ; ISO 180A
Izod Impact Resistance	0.550 J/cm ²	2.62 ft-lb/in ²	ISO 180A

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	
	19.0 µm/m-°C	10.6 µin/in-°F	Axial; ASTM E831
	@Temperature -50.0 - 50.0 °C	@Temperature -58.0 - 122 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Transverse to Flow	@Temperature 20.0 °C	@Temperature 68.0 °F	ASTM E831
	75.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	41.7 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM E831
	@Temperature 100 - 200 °C	@Temperature 212 - 392 °F	
Thermal Conductivity	0.590 W/m-K	4.09 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	220 °C	428 °F	UL Temperature Index 220 / 240 per UL746B
Deflection Temperature at 1.8 MPa (264 psi)	>= 260 °C	>= 500 °F	Annealed 2 hr @ 200°C; ASTM D663
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	2.00e+13 ohm-cm	2.00e+13 ohm-cm	ASTM D257
Dielectric Constant	5.0	5.0	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	5.0	5.0	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	15.0 kV/mm	381 kV/in	ASTM D149
Dissipation Factor	0.0020	0.0020	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.0050	0.0050	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Arc Resistance	185 sec	185 sec	ASTM D495
Comparative Tracking Index	250 V	250 V	UL 746A

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