

Solvay Specialty Polymers Ryton® R-7-190NA Polyphenylene Sulfide (PPS), GlassMineral Filled

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

Material Notes:

Ryton® R-7-190NA glass fiber and mineral filled polyphenylene sulfide compound provides enhanced strength and low maintenance molding using conventional molding equipment. Features: Good Chemical Resistance; Good Electrical Properties; Good Strength Additional Properties: Heat Deflection Temperature - ASTM D648 265 °C; Insulation Resistance - (90°C): 1.00E+13 ohm; Mold Shrinkage - 0.20 %; Mold Shrinkage - 0.40 %; Temperature Index - UL 746B 220 to 240 °C Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Ryton-R-7-190NA-Polyphenylene-Sulfide-PPS-GlassMineral-Filled.php

Physical Properties	Metric	English	Comments
Density	2.00 g/cc	0.0723 lb/in ³	ISO 1183
Water Absorption	0.020 %	0.020 %	ISO 62
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength	150 MPa	21800 psi	ASTM D638
Elongation at Break	1.0 %	1.0 %	ASTM D638
Flexural Strength	230 MPa	33400 psi	ASTM D790
Flexural Modulus	18.0 GPa	2610 ksi	ISO 178
Compressive Strength	275 MPa	39900 psi	ASTM D695
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	Notch A; ISO 180
Izod Impact, Unnotched (ISO)	22.0 kJ/m ²	10.5 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	15.0 µm/m-°C	8.33 µin/in-°F	2; ISO 11359-2
	@Temperature 100 - 200 °C	@Temperature 212 - 392 °F	
	15.0 µm/m-°C	8.33 µin/in-°F	2; ISO 11359-2
	@Temperature -50.0 - 50.0 °C	@Temperature -58.0 - 122 °F	
CTE, linear, Transverse to Flow	25.0 µm/m-°C	13.9 µin/in-°F	ISO 11359-2
	@Temperature -50.0 - 50.0 °C	@Temperature -58.0 - 122 °F	

Thermal Properties	Metric W/m·m-Å°C	English BTU-in/ft-Å°F	Comments
	@Temperature 100 - 200 Å°C	@Temperature 212 - 392 Å°F	ISO 11359-2
Thermal Conductivity	0.640 W/m-K	4.44 BTU-in/hr-ftÅ²-Å°F	ISO 8302
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	5VA	5VA	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	5.0	5.0	ASTM D150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	5.2	5.2	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	18.0 kV/mm	457 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 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Arc Resistance	185 sec	185 sec	ASTM D495
Comparative Tracking Index	250 V	250 V	UL 746

Descriptive Properties	Value	Comments
Availability	Asia Pacific	
	Europe	
	Latin America	
	North America	
Color	Natural	
Form	Pellets	

Descriptive Properties	Value	Comments
RoHS Compliance	RoHS Compliant	

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