

Solvay Specialty Polymers Ryton® R-7-121NA Polyphenylene Sulfide Resin (Unverified Data**)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

Ryton® R-7-121NA is an advanced glass/mineral filled polyphenylene sulfide compound developed to provide good mechanical strength with good flow and low maintenance molding using conventional molding equipment. Measured on 102mm x 102mm x 3.2 mm plaques, edge gated. Information provided by Chevron Phillips 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-7-121NA-Polyphenylene-Sulfide-Resin-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.95 g/cc	0.0704 lb/in ³	ISO 1183A
Water Absorption	0.020 %	0.020 %	ASTM D-570
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	140 MPa	20300 psi	ISO 527
Elongation at Yield	1.0 %	1.0 %	ISO 527
Flexural Strength	215 MPa	31200 psi	ISO 178
Flexural Modulus	18.0 GPa	2610 ksi	ISO 178
Compressive Strength	270 MPa	39200 psi	ISO 604
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	ISO 180A
Izod Impact, Unnotched (ISO)	18.0 kJ/m ²	8.57 ft-lb/in ²	ISO 180A

Thermal Properties	Metric	English	Comments
CTE, linear	15.0 µm/m-°C	8.33 µin/in-°F	Axial; ISO 11359-2
	@Temperature -50.0 - 50.0 °C	@Temperature -58.0 - 122 °F	
	15.0 µm/m-°C	8.33 µin/in-°F	Axial; ISO 11359-2
@Temperature 100 - 200 °C	@Temperature 212 - 392 °F		
	30.0 µm/m-°C	16.7 µin/in-°F	

CTE, linear, Transverse to Flow Thermal Properties	Metric @Temperature -50.0 - 50.0 °C	English @Temperature -58.0 - 122 °F	ISO 11359-2 Comments
	70.0 µm/m-°C	38.9 µin/in-°F	ISO 11359-2
	@Temperature 100 - 200 °C	@Temperature 212 - 392 °F	
Thermal Conductivity	0.580 W/m-K	4.03 BTU-in/hr-ft ² -°F	
Deflection Temperature at 1.8 MPa (264 psi)	>= 260 °C	>= 500 °F	ISO 75
UL RTI, Electrical	220 - 240 °C	428 - 464 °F	UL 746B
Flammability, UL94	5VA	5VA	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D-257
Insulation Resistance	1.00e+11 ohm	1.00e+11 ohm	90°C, 95% RH, 48 hr
Dielectric Constant	4.8	4.8	ASTM D-150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	4.8	4.8	ASTM D-150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.0010	0.0010	ASTM D-150
Arc Resistance	0.0020	0.0020	ASTM D-150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Comparative Tracking Index	180 sec	180 sec	ASTM D-495
	250 V	250 V	UL 746A

Processing Properties	Metric	English	Comments
Melt Temperature	315 - 345 °C	599 - 653 °F	
Mold Temperature	135 °C	275 °F	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China