

Sumitomo Bakelite North America RX[®] 613 Fiberglass Reinforced Phenolic

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Novolac, Glass Filled

Material Notes:

RX[®] 613 is a fiberglass reinforced phenolic molding compound with good dimensional stability and good strength at elevated temperatures. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-RX-613-Fiberglass-Reinforced-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.750 g/cc	0.0271 lb/in ³	ISO 60
Density	1.60 g/cc	0.0578 lb/in ³	ISO 1183
Water Absorption	0.080 %	0.080 %	ISO 62
Linear Mold Shrinkage	0.0025 cm/cm	0.0025 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	100	100	ISO 2039/2
Tensile Strength at Break	85.0 MPa	12300 psi	ISO 527
Flexural Strength	175 MPa	25400 psi	ISO 178
Flexural Modulus	14.0 GPa	2030 ksi	ISO 178
Compressive Strength	350 MPa	50800 psi	ISO 604
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	18.0 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	10.0 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	ASTM E831
Thermal Conductivity	0.410 W/m-K	2.85 BTU-in/hr-ft ² - $\text{Å}^\circ\text{F}$	ASTM C518
Maximum Service Temperature, Air	150 $\text{Å}^\circ\text{C}$	302 $\text{Å}^\circ\text{F}$	UL Temperature Index; UL 746B
Deflection Temperature at 1.8 MPa (264 psi)	185 $\text{Å}^\circ\text{C}$	365 $\text{Å}^\circ\text{F}$	As Molded; ISO 75A
	$\geq 282 \text{ Å}^\circ\text{C}$	$\geq 540 \text{ Å}^\circ\text{F}$	Post Baked; ISO 75A
Flammability, UL94	V-0	V-0	
	@Thickness 3.20 mm	@Thickness 0.126 in	
	V-0	V-0	

Thermal Properties	Metric @ Thickness 1.60 mm	English @ Thickness 0.0630 in	Comments
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Electrical Properties	Metric	English	Comments
Dielectric Strength	14.0 kV/mm @Frequency 60.0 Hz	356 kV/in @Frequency 60.0 Hz	short time, wet; ASTM D149
Arc Resistance	150 sec	150 sec	ASTM D495

Descriptive Properties	Value	Comments
Colors	Black, Green	
Form	Granular	
Molding Method	Compression	
	Injection	
	Transfer	

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