

Sumitomo Bakelite North America RX[®] 611 Fiberglass Reinforced Phenolic

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

Material Notes:

RX[®] 611 is a fiberglass reinforced phenolic molding compound, with good dimensional stability and good strength at elevated temperatures. Meets ASTM D-5948 Type MFH. Information supplied by Sumitomo Bakelite North America.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-RX-611-Fiberglass-Reinforced-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.800 g/cc	0.0289 lb/in ³	Powder; ISO 60
Density	1.74 g/cc	0.0629 lb/in ³	ISO 1183
Water Absorption	0.040 %	0.040 %	ISO 62
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	100	100	ISO 2039/2
Tensile Strength, Ultimate	80.0 MPa	11600 psi	ISO 527
Flexural Strength	130 MPa	18900 psi	ISO 178
Flexural Modulus	16.0 GPa	2320 ksi	ISO 178
Compressive Strength	340 MPa	49300 psi	ISO 604
Charpy Impact, Notched	0.250 J/cm ²	1.19 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	17.0 Åµm/m-Å°C @Temperature 23.0 Å°C	9.44 Åµin/in-Å°F @Temperature 73.4 Å°F	TMA
Thermal Conductivity	0.520 W/m-K	3.61 BTU-in/hr-ftÅ²-Å°F	ASTM F433
Maximum Service Temperature, Air	180 Å°C	356 Å°F	UL Temperature Index; UL 746B
Deflection Temperature at 1.8 MPa (264 psi)	190 Å°C	374 Å°F	As Molded; ISO 75 A
	>= 282 Å°C	>= 540 Å°F	Post Baked; ISO 75 A
Flammability, UL94	V-0	V-0	

Thermal Properties	@Thickness 1.60 mm Metric	@Thickness 0.0630 in English	Comments
	V-0	V-0	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	13.0 kV/mm	330 kV/in	IEC 243
	@Thickness 3.00 mm	@Thickness 0.118 in	
Arc Resistance	145 sec	145 sec	ASTM D495

Descriptive Properties	Value	Comments
Available Molding Grades	Compression, Transfer, Injection	
Color	Black, Green	
Form	Granular	

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