

Sumitomo Bakelite North America RX® 853G Fiberglass Reinforced Phenolic Novolac

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

Material Notes:

RX® 853G is a fiberglass reinforced phenolic novolac compound, featuring dimensional stability, moderate impact resistance, and good strength and modulus. Information supplied by Sumitomo Bakelite North America.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-RX-853G-Fiberglass-Reinforced-Phenolic-Novolac.php

Physical Properties	Metric	English	Comments
Bulk Density	0.550 g/cc	0.0199 lb/in ³	Powder; ASTM D1895
Density	1.78 g/cc	0.0643 lb/in ³	ASTM D-792
Water Absorption	0.080 %	0.080 %	24 hour; ASTM D570
	0.25 %	0.25 %	48 hour; ASTM D570
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	80	80	ASTM D785
Tensile Strength, Ultimate	55.0 MPa	7980 psi	ASTM D638
Flexural Strength	103 MPa	14900 psi	ASTM D790
Flexural Modulus	15.9 GPa	2310 ksi	ASTM D790
Compressive Strength	190 MPa	27600 psi	ASTM D695
Izod Impact, Notched	0.550 J/cm	1.03 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C	11.1 µin/in-°F	ASTM E831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	39.0 µm/m-°C	21.7 µin/in-°F	ASTM E831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.790 W/m-K	5.48 BTU-in/hr-ft ² -°F	ASTM C518
Maximum Service Temperature, Air	150 °C	302 °F	UL Temperature Index; UL 746B
Deflection Temperature at 1.8 MPa	180 °C	356 °F	As Molded; ASTM D648A

<small>(264 psi)</small> Thermal Properties	Metric	English	Comments
	>= 282 °C	>= 540 °F	Post Baked; ASTM D648A
Flammability, UL94	V-1 @Thickness 3.20 mm	V-1 @Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	12.2 kV/mm	310 kV/in	60 Hz, wet, SS; ASTM D149
	14.0 kV/mm	356 kV/in	ST; ASTM D149
Arc Resistance	185 sec	185 sec	ASTM D495

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

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