

Sumitomo Bakelite North America RX[®] 643 Fiberglass Reinforced Phenolic

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Resole, Glass Fiber Filled

Material Notes:

RX[®] 643 is a fiberglass reinforced, ammonia-free, phenolic resole compound, with good dimensional stability and good strength at elevated temperatures. Meets ASTM D-5948 Type GPI-10. 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-643-Fiberglass-Reinforced-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.800 g/cc	0.0289 lb/in ³	ASTM D1895
Density	1.75 g/cc	0.0632 lb/in ³	ASTM D792
Water Absorption	0.050 %	0.050 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
	0.30 %	0.30 %	ASTM D570
	@Time 173000 sec	@Time 48.0 hour	
Linear Mold Shrinkage	0.0015 cm/cm	0.0015 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	85	85	ASTM D785
Tensile Strength at Break	96.0 MPa	13900 psi	ASTM D638
Flexural Strength	186 MPa	27000 psi	ASTM D790
Flexural Modulus	13.8 GPa	2000 ksi	ASTM D790
Compressive Strength	234 MPa	33900 psi	ASTM D695
Izod Impact, Notched	0.590 J/cm	1.11 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	13.0 Åµm/m-Å°C	7.22 Åµin/in-Å°F	ASTM E831
Deflection Temperature at 1.8 MPa (264 psi)	280 Å°C	536 Å°F	As Molded; ASTM D648A
	>= 282 Å°C	>= 540 Å°F	Post Baked; ASTM D648A

Electrical Properties	Metric	English	Comments
	11.4 kV/mm	290 kV/in	

Dielectric Strength Electrical Properties	Metric @Frequency 60.0 Hz	English @Frequency 60.0 Hz	step-by-step, wet; ASTM D149 Comments
	13.8 kV/mm	351 kV/in	short time, wet; ASTM D149
	@Frequency 60.0 Hz	@Frequency 60.0 Hz	
Arc Resistance	135 sec	135 sec	ASTM D495

Descriptive Properties	Value	Comments
Color	Black	
Form	Granular	
Molding Method	Compression	
	Injection	
	Transfer	

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