

Sumitomo Bakelite North America RX® 680 Fiberglass and Glass Reinforced Phenolic

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

Material Notes:

RX® 680 is a fiberglass and glass bead filled 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-680-Fiberglass-and-Glass-Reinforced-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.700 g/cc	0.0253 lb/in ³	ISO 60
Density	1.72 g/cc	0.0621 lb/in ³	ISO 1183
Water Absorption	0.060 %	0.060 %	ISO 62
Linear Mold Shrinkage	0.0035 cm/cm	0.0035 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	95	95	ISO 2039/2
Tensile Strength at Break	75.0 MPa	10900 psi	ISO 527
Flexural Strength	165 MPa	23900 psi	ISO 178
Flexural Modulus	14.0 GPa	2030 ksi	ISO 178
Compressive Strength	310 MPa	45000 psi	ISO 604

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	12.0 µm/m-°C	6.67 µin/in-°F	ASTM E831
CTE, linear, Transverse to Flow	33.0 µm/m-°C	18.3 µin/in-°F	ASTM E831
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °F	As Molded; ISO 75A
	>= 282 °C	>= 540 °F	Post Baked; ISO 75A

Descriptive Properties	Value	Comments
Color	Black	
Form	Granular	
Molding Method	Compression	

Descriptive Properties	Value	Comments
	Transfer	

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