

Sumitomo Bakelite North America RX® 852 Novolac Phenolic

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

Material Notes:

Fiberglass reinforced phenolic novolac compound with good dimensional stability and good strength at elevated temperatures. Information provided by Vyncolit, a Sumitomo Bakelite Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-RX-852-Novolac-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.700 g/cc	0.0253 lb/in ³	Powder Density; ISO 60
Density	1.86 g/cc	0.0672 lb/in ³	Relative Density; ISO 1183
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	Compression Molding; ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	90	90	ISO 2039/2
Tensile Strength at Break	70.0 MPa	10200 psi	ISO 527
Flexural Strength	130 MPa	18900 psi	At Rupture; ISO 178
Flexural Modulus	19.0 GPa	2760 ksi	ISO 178
Compressive Strength	215 MPa	31200 psi	ISO 604
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	23.0 μm/m-°C	12.8 μin/in-°F	ASTM E-831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	42.0 μm/m-°C	23.3 μin/in-°F	ASTM E-831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.680 W/m-K	4.72 BTU-in/hr-ft ² -°F	ASTM C-518
Deflection Temperature at 1.8 MPa (264 psi)	225 °C	437 °F	As molded; ISO 75 A
	>= 282 °C	>= 540 °F	Post Baked; ISO 75 A

Electrical Properties	Metric	English	Comments
Dielectric Strength	12.5 kV/mm	318 kV/in	60Hz, Short Time, dry; ASTM D149

Electrical Properties	Metric	English	Comments
Descriptive Properties	Value		Comments
Color	Black		
Form	Flake		
Main Filler	Glass Fiber		
Molding Method	Compression, transfer, injection		

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