

Sumitomo Bakelite North America RX® 865M Novolac Phenolic

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

Material Notes:

Fiberglass reinforced phenolic novolac compound featuring dimensional stability, moderate impact resistance, good strength and modulus. 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-865M-Novolac-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.650 g/cc	0.0235 lb/in ³	Powder Density; ISO 60
Density	1.88 g/cc	0.0679 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	95	95	ISO 2039/2
Tensile Strength at Break	65.0 MPa	9430 psi	ISO 527
Flexural Strength	135 MPa	19600 psi	At Rupture; ISO 178
Flexural Modulus	20.0 GPa	2900 ksi	ISO 178
Compressive Strength	265 MPa	38400 psi	ISO 604
Izod Impact, Notched (ISO)	4.50 kJ/m ²	2.14 ft-lb/in ²	ISO 180

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	17.0 µm/m-°C	9.44 µin/in-°F	ASTM E-831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	39.0 µm/m-°C	21.7 µin/in-°F	ASTM E-831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.740 W/m-K	5.14 BTU-in/hr-ft ² -°F	ASTM C-518
Maximum Service Temperature, Air	150 °C	302 °F	UL 746B
Deflection Temperature at 1.8 MPa (264 psi)	>= 282 °C	>= 540 °F	Post Baked; ISO 75 A
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	

Thermal Properties	Metric @ Thickness 3.20 mm	English @ Thickness 0.126 in	Comments
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Electrical Properties	Metric	English	Comments
Dielectric Strength	13.5 kV/mm	343 kV/in	60Hz, Short Time, dry; ASTM D149
Arc Resistance	185 sec	185 sec	ASTM D495

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

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