

Sumitomo Bakelite North America RX® 865M Fiberglass Reinforced Phenolic Novolac

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

Material Notes:

RX® 865M 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-865M-Fiberglass-Reinforced-Phenolic-Novolac.php

Physical Properties	Metric	English	Comments
Bulk Density	0.650 g/cc	0.0235 lb/in ³	Powder; ISO 60
Density	1.88 g/cc	0.0679 lb/in ³	ISO 1183
Water Absorption	0.060 %	0.060 %	ISO 62
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	95	95	ISO 2039/2
Tensile Strength, Ultimate	65.0 MPa	9430 psi	ISO 527
Flexural Strength	135 MPa	19600 psi	ISO 178
Flexural Modulus	20.0 GPa	2900 ksi	ISO 178
Compressive Strength	265 MPa	38400 psi	ISO 604
Charpy Impact, Notched	0.450 J/cm ²	2.14 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	17.0 µm/m-°C	9.44 µin/in-°F	TMA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
CTE, linear, Transverse to Flow	39.0 µm/m-°C	21.7 µin/in-°F	TMA
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.740 W/m-K	5.14 BTU-in/hr-ft ² -°F	ASTM F433
Maximum Service Temperature, Air	150 °C	302 °F	UL Temperature Index; 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	3.2mm

Thermal Properties	Metric	English	Comments
	0.1	0.1	1.5 mm

Electrical Properties	Metric	English	Comments
Dielectric Strength	13.5 kV/mm	343 kV/in	3 mm; IEC 243
Arc Resistance	185 sec	185 sec	ASTM D495

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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China