

Sumitomo Bakelite North America RX® 655 Novolac Phenolic

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

Material Notes:

Fiberglass and mineral reinforced phenolic molding compound with very high fill level (75%). Excellent dimensional stability and good strength at elevated temperatures. Very low thermal expansion coefficient and negligible creep under load. 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-655-Novolac-Phenolic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.950 g/cc	0.0343 lb/in ³	Powder Density; ISO 60
Density	2.10 g/cc	0.0759 lb/in ³	Relative Density; ISO 1183
Linear Mold Shrinkage	0.00060 cm/cm	0.00060 in/in	Compression Molding; ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	105	105	ISO 2039/2
Tensile Strength at Break	100 MPa	14500 psi	ISO 527
Flexural Strength	165 MPa	23900 psi	At Rupture; ISO 178
Flexural Modulus	27.0 GPa	3920 ksi	ISO 178
Compressive Strength	410 MPa	59500 psi	ISO 604
Charpy Impact, Notched	0.200 J/cm ²	0.952 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 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.940 W/m-K	6.52 BTU-in/hr-ft ² -°F	ASTM C-518
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	As molded; ISO 75 A
	>= 282 °C	>= 540 °F	Post Baked; ISO 75 A

Electrical Properties	Metric	English	Comments
Dielectric Strength	14.0 kV/mm	356 kV/in	ASTM D149
	@Thickness 3.00 mm	@Thickness 0.118 in	

Arc Resistance Electrical Properties	180 sec Metric	180 sec English	ASTM D495 Comments
Comparative Tracking Index	250 V	250 V	IEC 112

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

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