

Sumitomo Bakelite North America RX® 790 Fiberglass Reinforced Phenolic Novolac

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

Material Notes:

RX® 790 is a fiberglass reinforced phenolic novolac compound, featuring a good balance of strength and toughness. Information supplied by Sumitomo Bakelite North America.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-North-America-RX-790-Fiberglass-Reinforced-Phenolic-Novolac.php

Physical Properties	Metric	English	Comments
Bulk Density	0.800 g/cc	0.0289 lb/in ³	Powder; ISO 60
Density	1.73 g/cc	0.0625 lb/in ³	ISO 1183
Water Absorption	0.060 %	0.060 %	ISO 62
Linear Mold Shrinkage	0.00050 cm/cm	0.00050 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	95	95	ISO 2039/2
Tensile Strength, Ultimate	105 MPa	15200 psi	ISO 527
Flexural Strength	215 MPa	31200 psi	ISO 178
Flexural Modulus	16.0 GPa	2320 ksi	ISO 178
Compressive Strength	380 MPa	55100 psi	ISO 604
Charpy Impact, Notched	0.350 J/cm ²	1.67 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	16.0 µm/m-°C	8.89 µin/in-°F	TMA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Thermal Conductivity	0.580 W/m-K	4.03 BTU-in/hr-ft ² -°F	ASTM F433
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	As Molded; ISO 75 A
	>= 282 °C	>= 540 °F	Post Baked; ISO 75 A

Electrical Properties	Metric	English	Comments
Dielectric Strength	13.5 kV/mm	343 kV/in	IEC 243

Electrical Properties	@Thickness 3.00 mm Metric	@Thickness 0.118 in English	Comments
Arc Resistance	145 sec	145 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	IEC 112

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

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