

RX® 611

Phenolic

Sumitomo Bakelite North America, Inc.

Message:

RX® 611 is a fiberglass reinforced phenolic molding compound, with good dimensional stability and good strength at elevated temperatures. Meets ASTM D-5948 Type MFH.

General Information			
UL YellowCard	E123472-221458		
Filler / Reinforcement	Glass Fiber		
Features	Good Dimensional Stability		
	High Temperature Strength		
Agency Ratings	ASTM D 5948, Type MFH		
Appearance	Black		
	Green		
Forms	Granules		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.74	g/cm ³	ISO 1183
Apparent Density	0.80	g/cm ³	ISO 60
Molding Shrinkage	0.20	%	ISO 2577
Water Absorption (23°C, 24 hr)	0.040	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale)	100		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, Compression Molded)	80.0	MPa	ISO 527-2
Flexural Modulus (Compression Molded)	16000	MPa	ISO 178
Flexural Stress (Compression Molded)	130	MPa	ISO 178
Compressive Stress	340	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (Compression Molded)	2.5	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			ISO 75-2/A
1.8 MPa, Unannealed	190	°C	

1.8 MPa, Annealed	> 282	°C	
CLTE - Flow	1.7E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.52	W/m/K	ASTM C518
RTI Elec	180	°C	UL 746
RTI Imp	180	°C	UL 746
RTI Str	180	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	13	kV/mm	ASTM D149
Arc Resistance	145	sec	ASTM D495
Comparative Tracking Index	200	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-0		
3.20 mm	V-0		

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