

RX® 853G

Phenolic

Sumitomo Bakelite North America, Inc.

Message:

RX® 853G is a fiberglass reinforced phenolic novolac compound, featuring dimensional stability, moderate impact resistance, and good strength and modulus.

General Information			
UL YellowCard	E123472-221463		
Filler / Reinforcement	Glass Fiber		
Features	Good Dimensional Stability		
	Good Strength		
	Medium Impact Resistance		
Uses	Simulated Wood Parts		
Appearance	Black		
Forms	Pellets		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.78	g/cm ³	ASTM D792
Apparent Density	0.55	g/cm ³	ASTM D1895
Molding Shrinkage - Flow (Compression Molded)	0.10	%	ASTM D955
Water Absorption (24 hr)	0.080	%	ASTM D570
Water Absorption - 48 hrs	0.25	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale, Compression Molded)	80		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break, Compression Molded)	55.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	15900	MPa	ASTM D790
Flexural Strength (Compression Molded)	103	MPa	ASTM D790
Compressive Strength	190	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	55	J/m	ASTM D256A

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

1.8 MPa, Unannealed, Compression Molded	180	°C	
1.8 MPa, Annealed, Compression Molded	> 282	°C	
CLTE			ASTM E831
Flow	2.0E-5	cm/cm/°C	
Transverse	3.9E-5	cm/cm/°C	
Thermal Conductivity	0.79	W/m/K	ASTM C518
RTI Elec	150	°C	UL 746
RTI Imp	150	°C	UL 746
RTI Str	150	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹			ASTM D149
-- ²	14	kV/mm	
-- ³	12	kV/mm	
Arc Resistance	185	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.20 mm)	V-1		UL 94
NOTE			
1.	Wet, 60 Hz		
2.	Method A (Short-Time)		
3.	Method B (Step-by-Step)		

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