

RX® 852

Phenolic

Sumitomo Bakelite North America, Inc.

Message:

RX® 852 is a fiberglass reinforced phenolic novolac compound, with good dimensional stability and good strength at elevated

General Information	
Filler / Reinforcement	Glass Fiber
Features	Good Dimensional Stability
	High Temperature Strength
Appearance	Black
Forms	Flakes
Processing Method	Compression Molding
	Injection Molding
	Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Density	1.86	g/cm ³	ISO 1183
Apparent Density	0.70	g/cm ³	ISO 60
Molding Shrinkage	0.10	%	ISO 2577
Water Absorption (23°C, 24 hr)	0.030	%	ISO 62

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale)	90		ISO 2039-2

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, Compression Molded)	70.0	MPa	ISO 527-2
Flexural Modulus (Compression Molded)	19000	MPa	ISO 178
Flexural Stress (Compression Molded)	130	MPa	ISO 178
Compressive Stress	215	MPa	ISO 604

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (Compression Molded)	4.0	kJ/m ²	ISO 180

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			ISO 75-2/A
1.8 MPa, Unannealed	225	°C	
1.8 MPa, Annealed	> 282	°C	
CLTE			ASTM E831
Flow	2.3E-5	cm/cm/°C	
Transverse	4.2E-5	cm/cm/°C	
Thermal Conductivity	0.68	W/m/K	ASTM C518

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	13	kV/mm	ASTM D149
Arc Resistance	180	sec	ASTM D495

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

