

# RX® 865M

Phenolic

Sumitomo Bakelite North America, Inc.

## Message:

RX® 865M is a fiberglass reinforced phenolic novolac compound, featuring dimensional stability, moderate impact resistance, and good strength and modulus.

General Information	
UL YellowCard	E123472-221464
Filler / Reinforcement	Glass Fiber
Features	Good Dimensional Stability
	Good Strength
	Medium Impact Resistance
Appearance	Black
Forms	Flakes
Processing Method	Compression Molding
	Injection Molding
	Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Density	1.88	g/cm <sup>3</sup>	ISO 1183
Apparent Density	0.65	g/cm <sup>3</sup>	ISO 60
Molding Shrinkage	0.10	%	ISO 2577
Water Absorption (23°C, 24 hr)	0.060	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale)	95		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, Compression Molded)	65.0	MPa	ISO 527-2
Flexural Modulus (Compression Molded)	20000	MPa	ISO 178
Flexural Stress (Compression Molded)	135	MPa	ISO 178
Compressive Stress	265	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (Compression Molded)	4.5	kJ/m <sup>2</sup>	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Annealed)	> 282	°C	ISO 75-2/A
CLTE			ASTM E831
Flow	1.7E-5	cm/cm/°C	


Transverse	3.9E-5	cm/cm/°C	
Thermal Conductivity	0.74	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	14	kV/mm	ASTM D149
Arc Resistance	185	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-0		
3.20 mm	V-0		

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