

RX® 655

Phenolic

Sumitomo Bakelite North America, Inc.

Message:

RX® 655 is a fiberglass and mineral reinforced phenolic molding compound, with excellent dimensional stability and good strength at elevated temperatures.

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

Physical	Nominal Value	Unit	Test Method
Density	2.10	g/cm ³	ISO 1183
Apparent Density	0.95	g/cm ³	ISO 60
Molding Shrinkage	0.060	%	ISO 2577
Water Absorption (23°C, 24 hr)	0.020	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale)	105		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, Compression Molded)	90.0	MPa	ISO 527-2
Flexural Modulus (Compression Molded)	27000	MPa	ISO 178
Flexural Stress (Compression Molded)	165	MPa	ISO 178
Compressive Stress	410	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (Compression Molded)	2.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			ISO 75-2/A
1.8 MPa, Unannealed	200	°C	
1.8 MPa, Annealed	> 282	°C	
CLTE - Flow	1.7E-5	cm/cm/°C	ASTM E831

Thermal Conductivity	0.94	W/m/K	ASTM C518
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	14	kV/mm	ASTM D149
Arc Resistance	180	sec	ASTM D495
Comparative Tracking Index	250	V	IEC 60112

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