

RX® 448

Phenolic

Sumitomo Bakelite North America, Inc.

Message:

RX® 448 is a cellulose fiber reinforced phenolic novolac molding compound. This material is recommended for large parts requiring moderate toughness. It is designed to meet the requirements of ASTM D-5948-96, Type CFI-5.

General Information	
UL YellowCard	E123472-221456
Filler / Reinforcement	Cellulose
Features	Good Toughness
Agency Ratings	ASTM D 5948, Type CFI-5
Appearance	Black
Forms	Pellets
Processing Method	Compression Molding Injection Molding Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.43	g/cm ³	ASTM D792
Apparent Density	0.40	g/cm ³	ASTM D1895
Molding Shrinkage - Flow (Compression Molded)	0.30	%	ASTM D955
Water Absorption (24 hr)	0.60	%	ASTM D570
Water Absorption - 48 hrs	1.5	%	ASTM D570
Flexural Strain at Break - Compression Molded	0.81	%	ASTM D790

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale, Compression Molded)	70		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Compression Molded)	48.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	10000	MPa	ASTM D790
Flexural Strength (Compression Molded)	70.0	MPa	ASTM D790
Compressive Strength	200	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	60	J/m	ASTM D256A

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Compression Molded)	180	°C	ASTM D648
CLTE			ASTM E831

Flow	4.7E-5	cm/cm/°C	
Transverse	5.3E-5	cm/cm/°C	
Thermal Conductivity	0.56	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	5.9	kV/mm	
-- ³	3.4	kV/mm	
Arc Resistance	65.0	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	HB		
3.20 mm	HB		
NOTE			
1.	Wet, 60 Hz		
2.	Method A (Short-Time)		
3.	Method B (Step-by-Step)		

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