

Sumitomo Phenolic FM 4005X4649

Phenolic

Sumitomo Bakelite North America, Inc.

Message:

FM 4005X4649 a fiberglass reinforced two-step phenolic molding compound formulated to increase thermal conductivity, to provide static dissipation and good wear resistance to abrasive media.

General Information	
UL YellowCard	E123472-221429
Filler / Reinforcement	Glass Fiber
Features	Antistatic
	Good Wear Resistance
	Thermally Conductive
Appearance	Black
Forms	Granules
Processing Method	Compression Molding
	Injection Molding
	Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.83	g/cm ³	ASTM D792
Apparent Density	0.75	g/cm ³	ASTM D1895
Molding Shrinkage - Flow	0.20	%	ASTM D955
Water Absorption (24 hr)	0.070	%	ASTM D570
Water Absorption - 48 hr	0.20	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	48.0	MPa	ASTM D638
Flexural Modulus	14000	MPa	ASTM D790
Flexural Strength	105	MPa	ASTM D790
Compressive Strength	210	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	22	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	195	°C	
1.8 MPa, Annealed	> 282	°C	
CLTE - Flow	2.9E-5	cm/cm/°C	ASTM E831

Thermal Conductivity	0.75	W/m/K	ASTM C518
RTI Elec	150	°C	UL 746
RTI Imp	150	°C	UL 746
RTI Str	150	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating (3.20 mm)	V-0		UL 94

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