

Sumitomo Phenolic FM 3000

Phenolic

Sumitomo Bakelite North America, Inc.

Message:

FM 3000 is a self-lubricated cellulose reinforced phenolic molding compound, modified for applications requiring reduced friction and low wear.

General Information			
UL YellowCard	E123472-221420		
Filler / Reinforcement	Cellulose		
Additive	Lubricant		
Features	Good Wear Resistance		
	Low Friction		
	Self Lubricating		
Appearance	Black		
Forms	Granules		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
Apparent Density	0.45	g/cm ³	ASTM D1895
Molding Shrinkage - Flow (Compression Molded)	0.40	%	ASTM D955
Water Absorption (24 hr)	0.50	%	ASTM D570
Water Absorption - 48 hr	1.2	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale, Compression Molded)	115		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Compression Molded)	38.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	7000	MPa	ASTM D790
Flexural Strength (Compression Molded)	55.0	MPa	ASTM D790
Compressive Strength	105	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	27	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 - Flow	2.6E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹			ASTM D149
-- ²	10	kV/mm	
-- ³	7.9	kV/mm	
NOTE			
1.	Wet, 60 Hz		
2.	Method A (Short-Time)		
3.	Method B (Step-by-Step)		

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