

Sumitomo Phenolic FM 21386

Phenolic

Sumitomo Bakelite North America, Inc.

Message:

FM 21386 is a single stage phenolic molding compound reinforced with synthetic fiber in pellet form.

General Information			
Filler / Reinforcement	Filler		
Appearance	Black		
Forms	Pellets		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	ASTM D792
Apparent Density	0.50	g/cm ³	ASTM D1895
Molding Shrinkage - Flow (Compression Molded)	1.2	%	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570
Water Absorption - 48 hr	0.50	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Compression Molded)	41.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	5000	MPa	ASTM D790
Flexural Strength (Compression Molded)	62.0	MPa	ASTM D790
Compressive Strength	172	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	32	J/m	ASTM D256A

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Compression Molded)	145	°C	ASTM D648

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹			ASTM D149
-- ²	14	kV/mm	
-- ³	11	kV/mm	
Dielectric Constant ⁴ (1 MHz)	4.80		ASTM D2520
Dissipation Factor ⁵ (1 MHz)	0.020		ASTM D150

NOTE			
1.	Wet, 60 Hz		
2.	Method A (Short-Time)		

3.	Method B (Step-by-Step)
4.	Wet
5.	Wet

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