

Sumitomo Phenolic FM 7700P

Phenolic

Sumitomo Bakelite North America, Inc.

Message:

FM 7700P is a two-stage phenolic molding compound reinforced with cotton fabric in pellet form. FM-7700P is recommended to customers desiring approval under ASTM D-5948-96, Type CFI-20. (Replaces Military Specification MIL-M-14H.)

General Information			
Filler / Reinforcement	Cotton		
Agency Ratings	ASTM D 5948, Type CFI-20		
Appearance	Black		
Forms	Pellets		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.38	g/cm ³	ASTM D792
Apparent Density	0.30	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 hr	2.2	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (E-Scale, Compression Molded)	105		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Compression Molded)	41.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	9000	MPa	ASTM D790
Flexural Strength (Compression Molded)	86.0	MPa	ASTM D790
Compressive Strength	165	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	100	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	2.0E-5	cm/cm/°C	ASTM E831
RTI Elec	150	°C	UL 746
RTI Imp	150	°C	UL 746
RTI Str	150	°C	UL 746

Electrical	Nominal Value	Unit	Test Method
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Dielectric Strength ¹		ASTM D149	
-- ²	5.5	kV/mm	
-- ³	3.1	kV/mm	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	HB		UL 94
NOTE			
1.	Wet, 60 Hz		
2.	Method A (Short-Time)		
3.	Method B (Step-by-Step)		

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