

Sumitomo Phenolic FM 1132P

Phenolic

Sumitomo Bakelite North America, Inc.

Message:

FM 1132P is a two-stage phenolic molding compound reinforced with cellulose in pellet form. FM-1132P is recommended to customers desiring approval under ASTM D-5948-96, Type CFI-10. (Replaces Military Specification MIL-M-14H.)

General Information			
UL YellowCard	E123472-221421		
Filler / Reinforcement	Cellulose		
Agency Ratings	ASTM D 5948, Type CFI-10		
Appearance	Black		
Forms	Pellets		
Processing Method	Compression Molding		
	Injection Molding		
	Resin Transfer Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	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
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)	45.0	MPa	ASTM D638
Flexural Modulus (Compression Molded)	8000	MPa	ASTM D790
Flexural Strength (Compression Molded)	70.0	MPa	ASTM D790
Compressive Strength	193	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	59	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, Compression Molded)	180	°C	ASTM D648
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	7.2	kV/mm	
-- ³	4.8	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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