

Sumikon® PM-9501 (Compression)

Phenolic

Sumitomo Bakelite North America, Inc.

Message:

Durez "SUMIKON" PM-9501 black Phenolic is a two stage glass fiber and mineral filled special purpose molding compound. It is especially designed for applications requiring high strength and dimensional stability with excellent heat resistance. Typical applications include brush holders, housings, and heat insulators.

General Information	
Filler / Reinforcement	Glass Fiber Mineral
Features	Good Dimensional Stability High Heat Resistance High Strength
Uses	Housings Insulation
Appearance	Black
Forms	Granules
Processing Method	Compression Molding Resin Transfer Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.76	g/cm ³	ASTM D792
Apparent Density	0.80	g/cm ³	ASTM D1895
Molding Shrinkage - Flow	0.20	%	ASTM D6289
Water Absorption	0.050	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13800	MPa	ASTM D638
Tensile Strength	83.0	MPa	ASTM D638
Flexural Strength	138	MPa	ASTM D790
Compressive Strength	220	MPa	ASTM D695

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	30	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	204	°C	ASTM D648
CLTE - Flow (23 to 60°C)	2.2E-5	cm/cm/°C	ASTM E831
RTI Elec (3.00 mm)	150	°C	UL 746

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohms·cm	ASTM D257
Dielectric Strength			ASTM D149
-- ¹	18	kV/mm	
-- ²	16	kV/mm	
Dielectric Constant (1 MHz)	4.30		ASTM D2520
Dissipation Factor (1 MHz)	0.010		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		
3.00 mm	V-0		
Thermoset	Nominal Value	Unit	
Shelf Life	52	wk	
NOTE			
1.	Method A (Short-Time)		
2.	Method B (Step-by-Step)		

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