

Sumikon® PM-9501 (Injection)

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	Injection 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	0.35	%	ASTM D6289
Water Absorption	0.050	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	17900	MPa	ASTM D638
Tensile Strength	124	MPa	ASTM D638
Flexural Strength	200	MPa	ASTM D790
Compressive Strength	289	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	29	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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