

Sumikon® PM-9610 (Injection)

Phenolic

Sumitomo Bakelite North America, Inc.

Message:

Durez "SUMIKON" PM-9610 black Phenolic is a two stage glass and mineral filled special purpose molding compound. It is especially designed for applications requiring high strength and higher dimensional stability with excellent heat resistance. Typical applications include brush holders for high temperature, and timing pulleys.

General Information			
Filler / Reinforcement	Glass Fiber		
	Mineral		
Features	Good Dimensional Stability		
	High Heat Resistance		
	High Strength		
Uses	Pulleys		
Appearance	Black		
Forms	Granules		
Processing Method	Injection Molding		
	Resin Transfer Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.02	g/cm ³	ASTM D792
Apparent Density	0.96	g/cm ³	ASTM D1895
Molding Shrinkage - Flow	0.25	%	ASTM D6289
Water Absorption	0.030	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	24800	MPa	ASTM D638
Tensile Strength	96.0	MPa	ASTM D638
Flexural Strength	172	MPa	ASTM D790
Compressive Strength	241	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	21	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	210	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+12	ohms · cm	ASTM D257
Dielectric Strength			ASTM D149
-- ¹	15	kV/mm	

-- ²	9.8	kV/mm	
Dielectric Constant (1 MHz)	4.90		ASTM D2520
Dissipation Factor (1 MHz)	0.030		ASTM D150
Thermoset	Nominal Value	Unit	
Shelf Life	52	wk	
NOTE			
1.	Method A (Short-Time)		
2.	Method B (Step-by-Step)		

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