

Sumikon® PM-6430 (Injection)

Phenolic

Sumitomo Bakelite North America, Inc.

Message:

Durez "SUMIKON" PM-6430 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 and machineability. Typical applications include commutators.

General Information			
Filler / Reinforcement	Glass Fiber		
	Mineral		
Features	Good Dimensional Stability		
	High Heat Resistance		
	High Strength		
	Machinable		
Appearance	Black		
Forms	Granules		
Processing Method	Injection Molding		
	Resin Transfer Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.85	g/cm ³	ASTM D792
Apparent Density	0.70	g/cm ³	ASTM D1895
Molding Shrinkage - Flow	0.050	%	ASTM D6289
Water Absorption	0.050	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	15200	MPa	ASTM D638
Tensile Strength	103	MPa	ASTM D638
Flexural Strength	117	MPa	ASTM D790
Compressive Strength	179	MPa	ASTM D695
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	227	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohms · cm	ASTM D257
Dielectric Strength			ASTM D149
-- 1	12	kV/mm	
-- 2	11	kV/mm	

Dielectric Constant (1 MHz)	4.60		ASTM D2520
Dissipation Factor (1 MHz)	0.020		ASTM D150
Arc Resistance	170	sec	ASTM D495
Comparative Tracking Index	175	V	IEC 60112

Thermoset	Nominal Value	Unit
Shelf Life	52	wk

NOTE	
1.	Method A (Short-Time)
2.	Method B (Step-by-Step)

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