

Sumikon® PM-9840

Phenolic

SBHPP

Message:

SUMIKON® PM-9840 (Type J Black) is Glass fiber , Inorganic filler and Organic fiber filled resol resin (non-anmonia phenolic) molding compound with good mechanical property and heat resistance. This grade is official registered UL with V-0 (t=0.17).

General Information	
Filler / Reinforcement	Glass fiber reinforced material Inorganic filler Organic filler
Features	Heat resistance, medium
RoHS Compliance	RoHS compliance
Appearance	Black
Processing Method	Resin transfer molding Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	JIS K6911
Molding Shrinkage - Flow	0.75	%	JIS K6911
Water Absorption (Equilibrium)	0.26	%	JIS K6911
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	109		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	74.0	MPa	JIS K6911
Flexural Modulus	7300	MPa	JIS K6911
Flexural Strength	106	MPa	JIS K6911
Compressive Strength	209	MPa	JIS K6911
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	4.2	kJ/m ²	JIS K6911
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	202	°C	JIS K6911
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹	9.0	kV/mm	JIS K6911
Arc Resistance	149	sec	JIS K6911
Comparative Tracking Index	150	V	IEC 60112
Insulation Resistance			JIS K6911
-- ²	2.0E+11	ohms	JIS K6911
-- ³	2.0E+10	ohms	JIS K6911

Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.170 mm)	V-0		UL 94
NOTE			
1.	Method B (step by step)		
2.	As molded		
3.	After boiling		

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