

Sumikon® PM-9820

Phenolic

SBHPP

Message:

SUMIKON® PM-9820 (Type JR Black) is Organic fiber and Inorganic filler filled resol resin (non-anmonia phenolic) molding compound with good electronic property and heat resistance. This grade is official registered UL with V-0 (t=0.16).

General Information	
Filler / Reinforcement	Inorganic filler
	Organic filler
Features	Good electrical performance
	Heat resistance, medium
RoHS Compliance	RoHS compliance
Appearance	Black
Processing Method	Resin transfer molding
	Injection molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.46	g/cm ³	JIS K6911
Molding Shrinkage - Flow	0.76	%	JIS K6911
Water Absorption (Equilibrium)	0.28	%	JIS K6911
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	75.0	MPa	JIS K6911
Flexural Modulus	7000	MPa	JIS K6911
Flexural Strength	110	MPa	JIS K6911
Compressive Strength	231	MPa	JIS K6911
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.5	kJ/m ²	JIS K6911
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	215	°C	JIS K6911
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ¹	10	kV/mm	JIS K6911
Arc Resistance	130	sec	JIS K6911
Comparative Tracking Index	175	V	IEC 60112
Insulation Resistance			JIS K6911
-- ²	1.0E+11	ohms	JIS K6911
-- ³	1.0E+10	ohms	JIS K6911
Flammability	Nominal Value	Unit	Test Method

Flame Rating (0.160 mm)	V-0	UL 94
NOTE		
1.	Method B (step by step)	
2.	As molded	
3.	After boiling	

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