

Sumikon® FM-MK124

Polyphenylene Sulfide
Sumitomo Bakelite Co., Ltd.

Message:

PPS molding compounds developed for the purpose of metal substitution. They currently are extensively used in precision molded parts such as optical parts.

General Information			
UL YellowCard	E41429-232844		
Filler / Reinforcement	Glass fiber reinforced material		
Uses	Metal substitution		
	Printing machine parts		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.63	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.20	%	ASTM D955
Transverse flow	0.60	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.030	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	162	MPa	ASTM D638
Tensile Elongation (Yield)	1.9	%	ASTM D638
Flexural Modulus	11100	MPa	ASTM D790
Flexural Strength (Yield)	210	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	90	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	260	°C	ASTM D648
Thermal Conductivity	0.70	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.00		ASTM D150
Dissipation Factor (1 MHz)	1.5E-3		ASTM D150
Arc Resistance	125	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94

Injection	Nominal Value	Unit
Drying Temperature	120	°C
Drying Time	3.0	hr
Mold Temperature	120 - 150	°C
Injection instructions		

Cylinder temperature: 290 to 340°C

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