

Sumikon® FM-MK113

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			
Filler / Reinforcement	Glass fiber reinforced material		
	Organic filler		
Features	General		
Uses	Metal substitution		
	Printing machine parts		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.97	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.20	%	ASTM D955
Transverse flow	0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	94.0	MPa	ASTM D638
Tensile Elongation (Yield)	0.70	%	ASTM D638
Flexural Modulus	19600	MPa	ASTM D790
Flexural Strength (Yield)	157	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	260	°C	ASTM D648
Thermal Conductivity	0.90	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	15	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	5.00		ASTM D150
Dissipation Factor (1 MHz)	6.0E-3		ASTM D150
Arc Resistance	190	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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Recommended distributors for this material

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