

Sumikon® FM-M 120E

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		
Uses	Metal substitution		
	Printing machine parts		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.88	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)	95.0	MPa	ASTM D638
Tensile Elongation (Yield)	0.70	%	ASTM D638
Flexural Modulus	15300	MPa	ASTM D790
Flexural Strength (Yield)	160	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	68	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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

