

Sumikon® FM-MK21E

Polyphenylene Sulfide

Sumitomo Bakelite Co., Ltd.

Message:

Engineering plastics molding compounds are developed and marketed materials for metal substitutes, electro-magnetic wave shielding use, and other uses.

General Information			
UL YellowCard	E41429-232854		
Filler / Reinforcement	Carbon fiber reinforced material Organic filler		
Uses	Radiation shielding Metal substitution		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.11	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)	0.030	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	98.0	MPa	ASTM D638
Tensile Elongation (Yield)	1.5	%	ASTM D638
Flexural Modulus	22000	MPa	ASTM D790
Flexural Strength (Yield)	147	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	40	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	260	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+6	ohms · cm	ASTM D257
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
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Injection instructions

Cylinder temperature: 290 to 340°C

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Recommended distributors for this material

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