

Sumikon® FM-MK205

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	E41429-232850		
Filler / Reinforcement	Carbon fiber reinforced material Organic filler		
Features	Rigidity, high		
Uses	Radiation shielding Metal substitution		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.96	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.10	%	ASTM D955
Transverse flow	0.15	%	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)	100	MPa	ASTM D638
Tensile Elongation (Yield)	0.50	%	ASTM D638
Flexural Modulus	30000	MPa	ASTM D790
Flexural Strength (Yield)	216	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	70	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+2	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Injection	Nominal Value	Unit	Test Method
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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