

Sumikon® FM-MK505

Polyphenylene Sulfide

Sumitomo Bakelite Co., Ltd.

Message:

Sumikon® FM-MK505 is a polyphenylene sulfide (PPS) product. It can be processed by injection molding and is available in North America or Asia Pacific. Sumikon® FM-MK505 applications include electrical/electronic applications and the automotive industry.

Features include:

flame retardant/rated flame

high strength

Heat resistance

General Information			
Features	High strength		
	Heat resistance, high		
Uses	Electrical components		
	Application in Automobile Field		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.80	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30	%	ASTM D955
Water Absorption (24 hr)	0.030	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	21000	MPa	ASTM D638
Tensile Strength	200	MPa	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus (23°C)	24000	MPa	ASTM D790
Flexural Strength (23°C)	240	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)	270	°C	ASTM D648
Linear thermal expansion coefficient			ASTM D696
Flow	2.1E-5	cm/cm/°C	ASTM D696
Lateral	5.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	12	kV/mm	ASTM D149
Arc Resistance	187	sec	ASTM D495

Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Additional Information			

Flexural Strength, ASTM D790, -40°C: 240 MPaFlexural Strength, ASTM D790, 150°C: 190 MPaFlexural Strength, ASTM D790, 200°C: 180 MPaFlexural Modulus, ASTM D790, -40°C: 24,000 MPaFlexural Modulus, ASTM D790, 150°C: 16,000 MPaFlexural Modulus, ASTM D790, 200°C: 8,000 MPa

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