

Sumikon® FM-MK804

Polyphenylene Sulfide

Sumitomo Bakelite Co., Ltd.

Message:

Sumikon® FM-MK804 is a polyphenylene sulfide (PPS) product. It can be processed by injection molding and is available in North America or Asia Pacific. Typical application areas are: automotive industry.

Features include:

flame retardant/rated flame

Impact resistance

General Information			
Features	Impact resistance, good		
Uses	Application in Automobile Field		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.57	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.35	%	ASTM D955
Water Absorption (24 hr)	0.020	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13000	MPa	ASTM D638
Tensile Strength	140	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus (23°C)	12000	MPa	ASTM D790
Flexural Strength (23°C)	200	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	160	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	260	°C	ASTM D648
Linear thermal expansion coefficient			ASTM D696
Flow	3.5E-5	cm/cm/°C	ASTM D696
Lateral	7.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	13	kV/mm	ASTM D149
Arc Resistance	182	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (2.00 mm)	V-0		UL 94
Additional Information			

Flexural Strength, ASTM D790, -40°C: 210 MPaFlexural Strength, ASTM D790, 150°C: 180 MPaFlexural Strength, ASTM D790, 200°C: 180 MPaFlexural Modulus, ASTM D790, -40°C: 12,000 MPaFlexural Modulus, ASTM D790, 150°C: 8,000 MPaFlexural Modulus, ASTM D790, 200°C: 5,000 MPa

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