

# Sumikon® FM-TK200

Polyphenylene Sulfide

Sumitomo Bakelite Co., Ltd.

## Message:

This molding compound possesses about 10 to 100 times higher thermal conductivity than conventional plastics. This compound has widened the range of applications to parts which could not previously be made of plastic because of heat accumulation.

General Information			
UL YellowCard	E41429-232857		
Filler / Reinforcement	Carbon fiber reinforced material Organic filler		
Features	Heat conduction		
Uses	Radiation shielding Metal substitution		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.79	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.20	%	ASTM D955
Transverse flow	0.40	%	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)	57.0	MPa	ASTM D638
Tensile Elongation (Yield)	0.40	%	ASTM D638
Flexural Modulus	27000	MPa	ASTM D790
Flexural Strength (Yield)	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	35	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	260	°C	ASTM D648
Thermal Conductivity	20	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0	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

#### Injection instructions

Cylinder temperature: 290 to 340°C

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#### Recommended distributors for this material

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