

Sumikon® FM-PB600

Thermoplastic Polyester
Sumitomo Bakelite Co., Ltd.

Message:

Sumikon® FM-PB600 is a thermoplastic polyester product. It can be processed by injection molding and is available in North America or Asia Pacific. Typical application areas are: electrical/electronic applications. The main characteristics are: high strength.

General Information			
Features	High strength		
	General		
Uses	Electrical components		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.61	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.70	%	ASTM D955
Water Absorption (24 hr)	0.060	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13000	MPa	ASTM D638
Tensile Strength	160	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus (23°C)	12000	MPa	ASTM D790
Flexural Strength (23°C)	240	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	85	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	230	°C	ASTM D648
Linear thermal expansion coefficient			ASTM D696
Flow	1.5E-5	cm/cm/°C	ASTM D696
Lateral	6.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Dielectric Strength	14	kV/mm	ASTM D149
Arc Resistance	136	sec	ASTM D495
Additional Information			

Flexural Strength, ASTM D790, -40°C: 230 MPaFlexural Strength, ASTM D790, 150°C: 190 MPaFlexural Strength, ASTM D790, 200°C: 170 MPaFlexural Modulus, ASTM D790, -40°C: 12,000 MPaFlexural Modulus, ASTM D790, 150°C: 6,000 MPaFlexural Modulus, ASTM D790, 200°C: 3,800 MPa

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