

Sumikon® TM-4120

Thermoset Polyester
Sumitomo Bakelite Co., Ltd.

Message:

Sumikon®TM-4120 is a thermosetting 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: flame retardant/rated flame.

General Information			
UL YellowCard	E41429-232405		
Features	Good electrical performance		
Uses	Electrical components		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.97	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.80	%	ASTM D955
Water Absorption (24 hr)	0.12	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	17000	MPa	ASTM D638
Tensile Strength	40.0	MPa	ASTM D638
Tensile Elongation (Break)	0.50	%	ASTM D638
Flexural Modulus (23°C)	15000	MPa	ASTM D790
Flexural Strength (23°C)	90.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	25	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	220	°C	ASTM D648
Linear thermal expansion coefficient			ASTM D696
Flow	4.8E-5	cm/cm/°C	ASTM D696
Lateral	7.3E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Dielectric Strength	10	kV/mm	ASTM D149
Arc Resistance	190	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.790 mm)	V-0		UL 94
Additional Information			

Flexural Strength, ASTM D790, -40°C: 100 MPaFlexural Strength, ASTM D790, 150°C: 50 MPaFlexural Strength, ASTM D790, 200°C: 30 MPaFlexural Modulus, ASTM D790, -40°C: 17,000 MPaFlexural Modulus, ASTM D790, 150°C: 5,000 MPaFlexural Modulus, ASTM D790, 200°C: 3,000 MPa

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