

Sumikon® PM-55

Phenolic
Sumitomo Bakelite Co., Ltd.

Message:

Sumikon® PM-55 is a phenolic (Phenolic) product. It can be processed by injection molding and is available in North America or Asia Pacific.
Features include:
flame retardant/rated flame
high strength
Heat resistance

General Information			
Features	High strength Heat resistance, high		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.44	g/cm ³	ISO 1183
Molding Shrinkage	0.80 - 1.0	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.20	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	115		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Flexural Stress	95.0	MPa	ISO 178
Compressive Stress	225 - 245	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.2	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	180	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	10	kV/mm	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	HB		UL 94
Additional Information			

Insulation Resistance, JIS K6911, as molded: 1E10 to 1E12 ohmInsulation Resistance, JIS K6911, after boiling: 1E8 to 1E10 ohmAppearance after heating, JIS K6911, @ 2 hrs: 165°CAll ISO values were tested in accordance with JIS specifications.

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