

# Sumikon® PM-6440

Phenolic  
Sumitomo Bakelite Co., Ltd.

Message:

Sumikon® PM-6440 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			
UL YellowCard	E41429-232689		
Features	High strength		
	Heat resistance, high		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.83	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	0.15 - 0.35	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.050	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Flexural Stress	215	MPa	ISO 178
Compressive Stress	254 - 275	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.4	kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	290	°C	ISO 75-2/A
CLTE - Flow	2.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	9.0	kV/mm	IEC 60243-1
Comparative Tracking Index	175	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94
Additional Information			

Insulation Resistance, JIS K6911, as molded: 1E11 to 1E12 ohmInsulation Resistance, JIS K6911, after boiling: 1E10 to 1E11 ohmAppearance after heating, JIS K6911, @ 2 hrs: 200°CArc Resistance, JIS K6911: 180 secAll ISO values were tested in accordance with JIS specifications.

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