

# Sumikon® PM-9685L

Phenolic

Sumitomo Bakelite Co., Ltd.

Message:

Sumikon® PM-9685L is a phenolic (Phenolic) product. It can be processed by injection molding and is available in North America or Asia Pacific.

Sumikon® PM-9685L applications include electrical/electronic applications and the automotive industry.

Features include:

high strength

Heat resistance

General Information			
Features	High strength		
	Heat resistance, high		
Uses	Electrical components		
	Application in Automobile Field		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.71	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage	0.30 - 0.60	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.10	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	107		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Flexural Stress	195	MPa	ISO 178
Compressive Stress	215	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	9.8	kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	300	°C	ISO 75-2/A
CLTE - Flow	2.7E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	12	kV/mm	IEC 60243-1
Additional Information			

Insulation Resistance, JIS K6911, as molded: 1E12 to 1E14 ohmInsulation Resistance, JIS K6911, after boiling: 1E11 to 1E13 ohmAppearance after heating, JIS K6911, @ 2 hrs: 200°CAll ISO values were tested in accordance with JIS specifications.

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