

Sumikon® PM-9640

Phenolic

Sumitomo Bakelite Co., Ltd.

Message:

Sumikon® PM-9640 is a phenolic (Phenolic) product. It can be processed by injection molding and is available in North America or Asia Pacific.

Sumikon® PM-9640 applications include electrical/electronic applications, wire and cable, housing and automotive industries.

Features include:

flame retardant/rated flame

high strength

Heat resistance

General Information			
UL YellowCard	E41429-300199		
Features	High strength		
	Heat resistance, high		
	General		
Uses	Electrical components		
	Insulation shield		
	Application in Automobile Field		
	Shell		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.77	g/cm ³	ASTM D792
--	1.78	g/cm ³	ISO 1183
Molding Shrinkage			
Flow	0.40	%	ASTM D955
--	0.30 - 0.50	%	ISO 294-4
Water Absorption			
24 hr	0.070	%	ASTM D570
23°C, 24 hr	0.050	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	120		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	20000	MPa	ASTM D638
Tensile Strength	95.0	MPa	ASTM D638
Tensile Elongation (Break)	0.50	%	ASTM D638
Flexural Modulus (23°C)	17000	MPa	ASTM D790
Flexural Strength			

23°C	200	MPa	ASTM D790
--	230	MPa	ISO 178
Compressive Stress	275 - 315	MPa	ISO 604
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	5.4	kJ/m ²	ISO 179
Notched Izod Impact	50	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	220	°C	ASTM D648
1.8 MPa, not annealed	210	°C	ISO 75-2/A
Linear thermal expansion coefficient			
Flow	2.3E-5	cm/cm/°C	ASTM D696
Flow	2.5E-5	cm/cm/°C	ISO 11359-2
Lateral	2.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	5.0E+12	ohms·cm	ASTM D257
Dielectric Strength			
--	13	kV/mm	ASTM D149
--	15	kV/mm	IEC 60243-1
Arc Resistance	136	sec	ASTM D495
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 K 6911, as molded: 1E11 to 1E13Insulation Resistance, JIS K 6911, after boiling: 1E10 to 1E12Arc Resistance, JIS K6911: 125 secAppearance after healing, JIS K6911, @ 2 hrs: 200°CAll ISO values were tested in accordance with JIS specifications.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT