

## Sumitomo Bakelite Sumikon® PM-6430 Glass-Filled Phenolic, Injection Grade

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Novolac, Glass Filled

### Material Notes:

Sumikon® PM-6430 black Phenolic is a two stage glass fiber and mineral filled special purpose molding compound. It is especially designed for applications requiring high strength and dimensional stability with excellent heat resistance and machinability. Typical applications include commutators. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Sumitomo-Bakelite-Sumikon-PM-6430-Glass-Filled-Phenolic-Injection-Grade.php](http://www.lookpolymers.com/polymer_Sumitomo-Bakelite-Sumikon-PM-6430-Glass-Filled-Phenolic-Injection-Grade.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.85 g/cc	1.85 g/cc	ASTM D792
Bulk Density	0.700 g/cc	0.0253 lb/in <sup>3</sup>	ASTM D1895
Bulk Factor	2.6	2.6	ASTM D1895
Water Absorption	0.050 %	0.050 %	ASTM D570
Linear Mold Shrinkage	0.00050 cm/cm	0.00050 in/in	ASTM D6289

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	103 MPa	14900 psi	ASTM D638
Tensile Modulus	15.2 GPa	2200 ksi	ASTM D638
Flexural Strength	117 MPa	17000 psi	ASTM D790
Compressive Strength	179 MPa	26000 psi	ASTM D695
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	227 Â°C	441 Â°F	ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	ASTM D257
Dielectric Constant	4.6	4.6	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	5.0	5.0	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Electrical Properties	<sup>SI</sup> Metric	<sup>SI</sup> English	Comments
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	10.6 kV/mm	270 kV/in	Step by Step; ASTM D149
	11.8 kV/mm	300 kV/in	Short Time; ASTM D149
Dissipation Factor	0.020	0.020	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	0.020	0.020	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.030	0.030	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Arc Resistance	170 sec	170 sec	
Comparative Tracking Index	175 V	175 V	

## Contact Songhan Plastic Technology Co.,Ltd.

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