

Beijing Chemical Industry KAIFA® M109-G20 MPP0 Resin

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, 20% Glass Filled

Material Notes:

20% glass fiber reinforced Information provided by Beijing Chemical Industry Research Institute (Group)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Beijing-Chemical-Industry-KAIFA-M109-G20-MPP0-Resin.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Water Absorption	0.080 %	0.080 %	24 hr; ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	ASTM D638
Elongation at Break	4.0 - 6.0 %	4.0 - 6.0 %	ASTM D638
Flexural Strength	120 MPa	17400 psi	ASTM D790
Flexural Modulus	4.40 GPa	638 ksi	ASTM D790
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO179

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 μm/m-°C	22.2 μin/in-°F	ASTM D696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	135 °C	275 °F	ASTM D648
Flammability, UL94	V-1	V-1	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	2.9	2.9	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	ASTM D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Electrical Properties	Metric	English	Comments
Dissipation Factor	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	275 °C	527 °F	
Middle Barrel Temperature	290 °C	554 °F	
Front Barrel Temperature	290 °C	554 °F	
Nozzle Temperature	290 °C	554 °F	
Mold Temperature	100 °C	212 °F	
Injection Pressure	140 MPa	20300 psi	
Cycle Time - Injection	25 - 30 sec	25 - 30 sec	
Screw Speed	60 rpm	60 rpm	

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