

Beijing Chemical Industry KAIFA® MN301-G10 Nylon 66 Resin

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Fiber Filled, Flame Retardant

Material Notes:

10% glass fiber reinforced, flame retardant 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-MN301-G10-Nylon-66-Resin.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.010 cm/cm	0.0050 - 0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	ASTM D638
Flexural Strength	130 MPa	18900 psi	ASTM D790
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	ISO179
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	ISO179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 3.20 mm	V-0 @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	3.0 @Frequency 1e+6 Hz	3.0 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	26.0 kV/mm @Thickness 2.00 mm	660 kV/in @Thickness 0.0787 in	ASTM D149
Dissipation Factor	0.016 @Frequency 1e+6 Hz	0.016 @Frequency 1e+6 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	230 - 240 °C	446 - 464 °F	

Processing Properties	Metric	English	Comments
Front Barrel Temperature	265 - 270 °C	509 - 518 °F	
Nozzle Temperature	265 - 270 °C	509 - 518 °F	
Mold Temperature	60.0 - 90.0 °C	140 - 194 °F	
Drying Temperature	130 °C	266 °F	
Dry Time	4 hour	4 hour	
Injection Pressure	90.0 - 120 MPa	13100 - 17400 psi	

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