

Beijing Chemical Industry KAIFA® HN301-G10 PA6 Resin

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 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-HN301-G10-PA6-Resin.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	ASTM D638
Flexural Strength	140 MPa	20300 psi	ASTM D790
Flexural Modulus	2.30 GPa	334 ksi	ASTM D790
Izod Impact, Notched	0.700 J/cm @Thickness 3.20 mm	1.31 ft-lb/in @Thickness 0.126 in	ASTM D256
Charpy Impact Unnotched	4.40 J/cm ²	20.9 ft-lb/in ²	ISO179
Charpy Impact, Notched	0.850 J/cm ²	4.05 ft-lb/in ²	ISO179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	150 °C	302 °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+17 ohm-cm	1.00e+17 ohm-cm	ASTM D257
Dielectric Constant	3.0 @Frequency 1e+6 Hz	3.0 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	25.0 kV/mm @Thickness 2.00 mm	635 kV/in @Thickness 0.0787 in	ASTM D149
Dissipation Factor	0.030	0.030	ASTM D150

Electrical Properties	@Frequency 1e+6 Hz Metric	@Frequency 1e+6 Hz English	Comments
Processing Properties	Metric	English	Comments
Rear Barrel Temperature	210 - 220 °C	410 - 428 °F	
Middle Barrel Temperature	235 - 245 °C	455 - 473 °F	
Front Barrel Temperature	245 - 255 °C	473 - 491 °F	
Nozzle Temperature	240 - 245 °C	464 - 473 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
Drying Temperature	130 °C	266 °F	
Dry Time	4 hour	4 hour	
Injection Pressure	80.0 - 120 MPa	11600 - 17400 psi	

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