

Beijing Chemical Industry KAIFA® HN301-G0 PA6 Resin

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced, Flame Retardant

Material Notes:

High flame retardant, Good flow 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-G0-PA6-Resin.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.010 - 0.015 cm/cm	0.010 - 0.015 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	64.0 MPa	9280 psi	ASTM D638
Flexural Strength	101 MPa	14600 psi	ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	ASTM D790
Izod Impact, Notched	0.500 J/cm @Thickness 3.20 mm	0.937 ft-lb/in @Thickness 0.126 in	ASTM D256
Charpy Impact Unnotched	5.10 J/cm ²	24.3 ft-lb/in ²	ISO179
Charpy Impact, Notched	0.740 J/cm ²	3.52 ft-lb/in ²	ISO179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	68.0 °C	154 °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	3.1 @Frequency 1e+6 Hz	3.1 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	21.0 kV/mm @Thickness 2.00 mm	533 kV/in @Thickness 0.0787 in	ASTM D149
Dissipation Factor	0.028	0.028	ASTM D150

Electrical Properties	@Frequency 1e+6 Hz Metric	@Frequency 1e+6 Hz English	Comments
Processing Properties	Metric	English	Comments
Rear Barrel Temperature	200 - 210 °C	392 - 410 °F	
Middle Barrel Temperature	230 - 240 °C	446 - 464 °F	
Front Barrel Temperature	235 - 245 °C	455 - 473 °F	
Nozzle Temperature	235 - 240 °C	455 - 464 °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	60.0 - 90.0 MPa	8700 - 13100 psi	

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