

Beijing Chemical Industry KAIFA® 301-G10 PBT Resin

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 10% Glass Fiber Filled

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-301-G10-PBT-Resin.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	ASTM D792
Water Absorption	0.090 %	0.090 %	24 hr; ASTM D570
Linear Mold Shrinkage	0.0060 - 0.011 cm/cm	0.0060 - 0.011 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	76.0 MPa	11000 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	110 MPa	16000 psi	ASTM D790
Flexural Modulus	4.00 GPa	580 ksi	ASTM D790
Izod Impact, Notched	0.400 J/cm @Thickness 3.20 mm	0.749 ft-lb/in @Thickness 0.126 in	ASTM D256
Charpy Impact Unnotched	3.00 J/cm ²	14.3 ft-lb/in ²	ISO179
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO179

Thermal Properties	Metric	English	Comments
CTE, linear	41.0 μm/m-°C @Temperature -30.0 - 30.0 °C	22.8 μin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	185 °C	365 °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

Electrical Properties	Metric	English	Comments
	@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	
Dissipation Factor	0.020	0.020	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	225 - 245 °C	437 - 473 °F	
Nozzle Temperature	240 °C	464 °F	
Mold Temperature	40.0 - 80.0 °C	104 - 176 °F	
Injection Pressure	40.0 - 100 MPa	5800 - 14500 psi	
Back Pressure	4.00 - 15.0 MPa	580 - 2180 psi	
Screw Speed	<= 100 rpm	<= 100 rpm	

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