

Beijing Chemical Industry KAIFA® 301-G10F PBT Resin

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Glass Fiber Filled, Flame Retardant

Material Notes:

10% glass fiber reinforced, flame retardant, good flow, low bleeding
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-G10F-PBT-Resin.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ASTM D792
Water Absorption	0.080 %	0.080 %	24 hr; ASTM D570
Linear Mold Shrinkage	0.0060 - 0.010 cm/cm	0.0060 - 0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	ASTM D638
Elongation at Break	6.0 %	6.0 %	ASTM D638
Flexural Strength	160 MPa	23200 psi	ASTM D790
Flexural Modulus	4.10 GPa	595 ksi	ASTM D790
Charpy Impact Unnotched	3.50 J/cm ²	16.7 ft-lb/in ²	ISO179
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO179

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 μm/m-°C	30.6 μin/in-°F	ASTM D696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °F	ASTM D648
Flammability, UL94	V-0	V-0	
	@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

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	22.0 kV/mm @Thickness 2.00 mm	559 kV/in @Thickness 0.0787 in	ASTM D149
Dissipation Factor	0.019 @Frequency 1e+6 Hz	0.019 @Frequency 1e+6 Hz	ASTM D150
Comparative Tracking Index	250 V @Thickness 3.20 mm	250 V @Thickness 0.126 in	ASTM D3638

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	225 - 255 °C	437 - 491 °F	
Nozzle Temperature	245 °C	473 °F	
Mold Temperature	40.0 - 80.0 °C	104 - 176 °F	
Drying Temperature	130 °C	266 °F	
Dry Time	4 hour	4 hour	
Injection Pressure	80.0 - 120 MPa	11600 - 17400 psi	
Back Pressure	8.00 - 18.0 MPa	1160 - 2610 psi	
Screw Speed	<= 100 rpm	<= 100 rpm	

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