

Beijing Chemical Industry KAIFA® 301-G0 PBT Resin

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

Material Notes:

Flame retardant, folding endurance 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-G0-PBT-Resin.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ASTM D792
Water Absorption	0.10 %	0.10 %	24 hr; ASTM D570
Linear Mold Shrinkage	0.014 - 0.020 cm/cm	0.014 - 0.020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	ASTM D638
Flexural Strength	85.0 MPa	12300 psi	ASTM D790
Flexural Modulus	2.20 GPa	319 ksi	ASTM D790
Izod Impact, Notched	0.300 J/cm @Thickness 3.20 mm	0.562 ft-lb/in @Thickness 0.126 in	ASTM D256
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	ISO179
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO179

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C @Temperature -30.0 - 30.0 °C	44.4 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °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

Electrical Properties	Metric	English	Comments
Dielectric Strength	15.0 kV/mm	40 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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