

Beijing Chemical Industry KAIFA® 101 PBT Resin

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), Unreinforced, Molded

Material Notes:

Unreinforced, good toughness 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-101-PBT-Resin.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ASTM D792
Water Absorption	0.14 %	0.14 %	24 hr; ASTM D570
Linear Mold Shrinkage	0.012 - 0.022 cm/cm	0.012 - 0.022 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	ASTM D638
Flexural Strength	90.0 MPa	13100 psi	ASTM D790
Flexural Modulus	2.20 GPa	319 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	4.20 J/cm ²	20.0 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	HB @Thickness 3.20 mm	HB @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	3.2 @Frequency 1e+6 Hz	3.2 @Frequency 1e+6 Hz	ASTM D150

Electrical Properties	Metric 20.0 kV/mm	English 500 kV/in	Comments
Dielectric Strength	@Thickness 2.00 mm	@Thickness 0.0787 in	ASTM D149
Dissipation Factor	0.025 @Frequency 1e+6 Hz	0.025 @Frequency 1e+6 Hz	ASTM D150

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