

Beijing Chemical Industry KAIFA® 304-G00 PBT Resin

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

Material Notes:

Flame retardant, low bleeding, UV-resistant 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-304-G00-PBT-Resin.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in³	ASTM D792
Water Absorption	0.070 %	0.070 %	24 hr; ASTM D570
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	ASTM D638
Flexural Strength	90.0 MPa	13100 psi	ASTM D790
Flexural Modulus	2.20 GPa	319 ksi	ASTM D790
Izod Impact, Notched	0.300 J/cm @Thickness 3.20 mm	0.562 ft-lb/in @Thickness 0.126 in	ASTM D256
Charpy Impact Unnotched	3.50 J/cm²	16.7 ft-lb/in²	ISO179
Charpy Impact, Notched	0.400 J/cm²	1.90 ft-lb/in²	ISO179

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 µm/m-°C @Temperature -30.0 - 30.0 °C	38.9 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 21.0 kV/mm	English 5.3 kV/in	Comments
Dielectric Strength	@Thickness 2.00 mm	@Thickness 0.0787 in	ASTM D149
Dissipation Factor	0.020 @Frequency 1e+6 Hz	0.020 @Frequency 1e+6 Hz	ASTM D150

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