

Beijing Chemical Industry KAIFA® 302-G0 PBT Resin

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

Material Notes:

Flame retardant, 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-302-G0-PBT-Resin.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 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	45.0 MPa	6530 psi	ASTM D638
Flexural Strength	80.0 MPa	11600 psi	ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	ASTM D790
Izod Impact, Notched	0.280 J/cm @Thickness 3.20 mm	0.525 ft-lb/in @Thickness 0.126 in	ASTM D256
Charpy Impact Unnotched	2.50 J/cm ²	11.9 ft-lb/in ²	ISO179
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	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)	80.0 °C	176 °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	20.0 kV/mm @Thickness 2.00 mm	50 kV/in @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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