

Beijing Chemical Industry KAIFA® 302-G30 PBT Resin

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

Material Notes:

30% glass fiber reinforced, flame retardant 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-G30-PBT-Resin.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	ASTM D792
Water Absorption	0.080 %	0.080 %	24 hr; ASTM D570
Linear Mold Shrinkage	0.0040 - 0.0090 cm/cm	0.0040 - 0.0090 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	160 MPa	23200 psi	ASTM D790
Flexural Modulus	7.00 GPa	1020 ksi	ASTM D790
Izod Impact, Notched	0.690 J/cm @Thickness 3.20 mm	1.29 ft-lb/in @Thickness 0.126 in	ASTM D256
Charpy Impact Unnotched	3.80 J/cm ²	18.1 ft-lb/in ²	ISO179
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	ISO179

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 µm/m-°C @Temperature -30.0 - 30.0 °C	13.9 µin/in-°F @Temperature -22.0 - 86.0 °F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °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

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	20.0 kV/mm	508 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	

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