

Beijing Chemical Industry KAIFA® 551GT20S PBT Resin

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

Material Notes:

Glass fiber and mineral filled, flame retardant, low warpage, superior electrical performance, surface gloss
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-551GT20S-PBT-Resin.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	ASTM D792
Water Absorption	0.060 %	0.060 %	24 hr; ASTM D570
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	67.0 MPa	9720 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	95.0 MPa	13800 psi	ASTM D790
Flexural Modulus	4.00 GPa	580 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	2.50 J/cm ²	11.9 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	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)	120 °C	248 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 3.20 mm	V-0 @Thickness 0.126 in	

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	1.00e+16 ohm-cm Metric	1.00e+16 ohm-cm English	ASTM D257 Comments
Dielectric Constant	3.0 @Frequency 1e+6 Hz	3.0 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	20.0 kV/mm @Thickness 2.00 mm	508 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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