

## Beijing Chemical Industry KAIFA® 551-GT30S 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 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-551-GT30S-PBT-Resin.php](http://www.lookpolymers.com/polymer_Beijing-Chemical-Industry-KAIFA-551-GT30S-PBT-Resin.php)

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.060 %	0.060 %	24 hr; ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	105 MPa	15200 psi	ASTM D790
Flexural Modulus	5.00 GPa	725 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	2.30 J/cm <sup>2</sup>	10.9 ft-lb/in <sup>2</sup>	ISO179
Charpy Impact, Notched	0.600 J/cm <sup>2</sup>	2.86 ft-lb/in <sup>2</sup>	ISO179

Thermal Properties	Metric	English	Comments
CTE, linear	22.0 µm/m-°C	12.2 µin/in-°F	ASTM D696
	@Temperature -30.0 - 30.0 °C	@Temperature -22.0 - 86.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 3.20 mm	@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	21.0 kV/mm @Thickness 2.00 mm	533 kV/in @Thickness 0.0787 in	ASTM D149
Dissipation Factor	0.020 @Frequency 1e+6 Hz	0.020 @Frequency 1e+6 Hz	ASTM D150

## Contact Songhan Plastic Technology Co.,Ltd.

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