

Beijing Chemical Industry KAIFA® 301-G20 PBT Resin

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 20% Glass Fiber Filled

Material Notes:

20% 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-301-G20-PBT-Resin.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	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	92.0 MPa	13300 psi	ASTM D638
Elongation at Break	4.0 %	4.0 %	ASTM D638
Flexural Strength	160 MPa	23200 psi	ASTM D790
Flexural Modulus	6.00 GPa	870 ksi	ASTM D790
Izod Impact, Notched	0.700 J/cm @Thickness 3.20 mm	1.31 ft-lb/in @Thickness 0.126 in	ASTM D256
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	ISO179
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO179

Thermal Properties	Metric	English	Comments
CTE, linear	35.0 μm/m-°C @Temperature -30.0 - 30.0 °C	19.4 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	^{3.5} Metric	^{3.5} English	Comments
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
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	

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	225 - 250 °C	437 - 482 °F	
Nozzle Temperature	240 °C	464 °F	
Mold Temperature	40.0 - 80.0 °C	104 - 176 °F	
Injection Pressure	60.0 - 120 MPa	8700 - 17400 psi	
Back Pressure	6.00 - 18.0 MPa	870 - 2610 psi	
Screw Speed	<= 100 rpm	<= 100 rpm	

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