

Kingfa PA6-G50 50% Glass Fiber Reinforced PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 50% Glass Fiber Filled

Material Notes:

Features: Good size stability, Low tendency to warp, High mechanical properties, Good low temperature resistance, Good surface, Excellent balance properties. Applications: Injection molding, Automobile parts, Power tools, Machinery parts, Sport appliance. Information Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kingfa-PA6-G50-50-Glass-Fiber-Reinforced-PA6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.56 g/cc	1.56 g/cc	ASTM D792
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Water Absorption	0.60 %	0.60 %	ASTM D570
	@Temperature 23.0 Å°C, Time 86400 sec	@Temperature 73.4 Å°F, Time 24.0 hour	
Linear Mold Shrinkage	0.0020 - 0.0070 cm/cm	0.0020 - 0.0070 in/in	ASTM D955
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	122	122	ASTM D785
Tensile Strength at Break	195 MPa	28300 psi	10mm/min; ASTM D638
Elongation at Break	4.1 %	4.1 %	10mm/min; ASTM D638
Flexural Strength	295 MPa	42800 psi	2mm/min; ASTM D790
Flexural Modulus	13.0 GPa	1890 ksi	2mm/min; ASTM D790
Izod Impact, Notched	1.95 J/cm	3.65 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature 23.0 Å°C	@Thickness 0.126 in, Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	220 Å°C	428 Å°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	214 Å°C	417 Å°F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Processing Temperature	<= 300 Â°C	<= 572 Â°F	
Rear Barrel Temperature	225 - 245 Â°C	437 - 473 Â°F	Start Point: 230Â°C
Middle Barrel Temperature	250 - 270 Â°C	482 - 518 Â°F	Start Point: 255Â°C
Front Barrel Temperature	260 - 280 Â°C	500 - 536 Â°F	Start Point: 265Â°C
Melt Temperature	255 - 285 Â°C	491 - 545 Â°F	Start Point: 265Â°C
Mold Temperature	50.0 - 70.0 Â°C	122 - 158 Â°F	Start Point: 60Â°C
Drying Temperature	90.0 - 110 Â°C @Time 14400 - 21600 sec	194 - 230 Â°F @Time 4.00 - 6.00 hour	Pre-dry

Descriptive Properties	Value	Comments
Glass Fiber Content (%)	50	
Injection Speed	Moderate to High	

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