

Kingfa PA6-M20G16 20% Glass & 16% Mineral Filled PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Glass/Mineral Reinforced

Material Notes:

Features:Low tendency to warpExcellent size stabilityLow abrasionOutstanding surfaceApplications:Injection moldingAutomobile partsInformation Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kingfa-PA6-M20G16-20-Glass-16-Mineral-Filled-PA6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc @Temperature 23.0 Â°C	1.41 g/cc @Temperature 73.4 Â°F	ASTM D792
Water Absorption	0.60 % @Temperature 23.0 Â°C, Time 86400 sec	0.60 % @Temperature 73.4 Â°F, Time 24.0 hour	ASTM D570
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm @Temperature 23.0 Â°C	0.0040 - 0.0060 in/in @Temperature 73.4 Â°F	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength at Break	110 MPa	16000 psi	10mm/min; ASTM D638
Elongation at Break	2.1 %	2.1 %	10mm/min; ASTM D638
Flexural Strength	180 MPa	26100 psi	2mm/min; ASTM D790
Flexural Modulus	7.80 GPa	1130 ksi	2mm/min; ASTM D790
Izod Impact, Notched	0.950 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	1.78 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	218 Â°C @Thickness 6.40 mm	424 Â°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	208 Â°C @Thickness 6.40 mm	406 Â°F @Thickness 0.252 in	ASTM D648

Thermal Properties	HB Metric	HB English	Comments
	@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+15 ohm-cm	1.00e+15 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 (%)	36	
Injection Speed	Moderate to High	

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