

Kingfa PA66-C111 Toughened PA66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade

Material Notes:

Features:High impactLow tendency to wrapExcellent balance propertiesApplications:Injection moldingSport applianceAutomobile partsPower toolsInformation Provided by Kingfa Sci. & Tech. Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kingfa-PA66-C111-Toughened-PA66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc @Temperature 23.0 Â°C	1.08 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	0.014 - 0.017 cm/cm @Temperature 23.0 Â°C	0.014 - 0.017 in/in @Temperature 73.4 Â°F	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	109	109	ASTM D785
Tensile Strength at Break	48.0 MPa	6960 psi	10mm/min; ASTM D638
Elongation at Break	>= 50 %	>= 50 %	10mm/min; ASTM D638
Flexural Strength	72.0 MPa	10400 psi	2mm/min; ASTM D790
Flexural Modulus	1.75 GPa	254 ksi	2mm/min; ASTM D790
Izod Impact, Notched	8.80 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	16.5 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)	237 Â°C @Thickness 6.40 mm	459 Â°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	63.0 Â°C @Thickness 6.40 mm	145 Â°F @Thickness 0.252 in	ASTM D648

Thermal Properties	HB Metric	HB English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 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	<= 310 Â°C	<= 590 Â°F	
Rear Barrel Temperature	260 - 280 Â°C	500 - 536 Â°F	Start Point: 265Â°C
Middle Barrel Temperature	265 - 300 Â°C	509 - 572 Â°F	Start Point: 285Â°C
Front Barrel Temperature	275 - 305 Â°C	527 - 581 Â°F	Start Point: 285Â°C
Melt Temperature	275 - 310 Â°C	527 - 590 Â°F	Start Point: 285Â°C
Mold Temperature	50.0 - 80.0 Â°C	122 - 176 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
Injection Speed	Moderate to High	

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