

Kingfa PA66-C111

Polyamide 66

Kingfa



IDES | Prospector

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Technical Data

General

Material Status	• Commercial: Active		
UL Yellow Card ¹	• E171666-100668699		
Search for UL Yellow Card	• Kingfa		
Availability	• Asia Pacific	• North America	
Features	• Good Toughness	• High Impact Resistance	• Warp Resistant
Uses	• Appliances • Automotive Applications	• Power/Other Tools • Sporting Goods	
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.08 g/cm ³	ASTM D792
Molding Shrinkage - Flow (23°C)	1.4 to 1.7 %	ASTM D955
Water Absorption (23°C, 24 hr)	0.60 %	ASTM D570

Mechanical	Nominal Value Unit	Test Method
Tensile Strength ³	48.0 MPa	ASTM D638
Tensile Elongation ³ (Break)	50 %	ASTM D638
Flexural Modulus ⁴	1750 MPa	ASTM D790
Flexural Strength ⁴	72.0 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	880 J/m	ASTM D256

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	109	ASTM D785

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
0.45 MPa, Unannealed, 6.40 mm	237 °C	
1.8 MPa, Unannealed, 6.40 mm	63.0 °C	

Electrical	Nominal Value Unit	Test Method
Volume Resistivity	1.0E+16 ohm·cm	ASTM D257

Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
1.60 mm	HB	
3.00 mm	HB	

Injection	Nominal Value Unit
Drying Temperature	90.0 to 110 °C
Drying Time	4.0 to 6.0 hr
Rear Temperature	260 to 280 °C
Middle Temperature	265 to 300 °C
Front Temperature	275 to 305 °C
Processing (Melt) Temp	275 to 310 °C
Mold Temperature	50.0 to 80.0 °C
Injection Rate	Moderate-Fast

Injection Notes

Processing Temperature Limit: 310°C

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Notes

¹ A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL IDES continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

² Typical properties: these are not to be construed as specifications.

³ 10 mm/min

⁴ 2.0 mm/min

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Where to Buy

Supplier

Kingfa

, China

Telephone: 86-20-87037818

Web: <http://www.kingfa.net/>

Distributor

Please contact the supplier to find a distributor for Kingfa PA66-C111



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