

Kingfa PA66-RG301

Polyamide 66

Kingfa



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Technical Data

General

Material Status	• Commercial: Active
UL Yellow Card ¹	• E171666-101205190 • E171666-101047311 • E171666-225729
Search for UL Yellow Card	• Kingfa
Availability	• Asia Pacific • North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 30% Filler by Weight
Features	• Flame Retardant • High Heat Resistance • Good Electrical Properties • High Strength • Non-Blooming
Uses	• Connectors
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.46 g/cm ³	ASTM D792
Molding Shrinkage		ASTM D955
Flow: 23°C	0.40 %	
Across Flow: 23°C	0.90 %	
Water Absorption (23°C, 24 hr)	0.60 %	ASTM D570

Mechanical	Nominal Value Unit	Test Method
Tensile Strength ³	155 MPa	ASTM D638
Tensile Elongation ³ (Break)	2.1 %	ASTM D638
Flexural Modulus ⁴	8800 MPa	ASTM D790
Flexural Strength ⁴	220 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	95 J/m	ASTM D256

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	120	ASTM D785

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
0.45 MPa, Unannealed, 6.40 mm	257 °C	
1.8 MPa, Unannealed, 6.40 mm	250 °C	

Electrical	Nominal Value Unit	Test Method
Volume Resistivity	1.0E+15 ohm·cm	ASTM D257

Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
0.750 mm	V-0	
3.00 mm	V-0	

Injection	Nominal Value Unit
Drying Temperature	90.0 to 110 °C
Drying Time	4.0 to 6.0 hr
Rear Temperature	255 to 275 °C
Middle Temperature	260 to 290 °C
Front Temperature	270 to 300 °C
Processing (Melt) Temp	275 to 300 °C
Mold Temperature	50.0 to 70.0 °C
Injection Rate	Moderate-Fast

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Injection Notes

Processing Temperature Limit: 310°C

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-RG301



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