

Kingfa PA66-ROW

Polyamide 66

Kingfa

Message:

Kingfa PA66-ROW is a polyamide 66 (nylon 66) material. This product is available in North America or Asia Pacific region. The processing method is injection molding.

The main features of Kingfa PA66-ROW are:

- flame retardant/rated flame
- Flame Retardant
- high strength
- Heat resistance

Typical application areas include:

- Electrical/electronic applications
- electrical appliances
- home apps

General Information			
UL YellowCard	E171666-101326225		
Features	No frost		
	High strength		
	Good electrical performance		
	Heat resistance, high		
	Flame retardancy		
Uses	Home appliance components		
	Household goods		
	Connector		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow: 23°C	1.1	%	ASTM D955
Transverse flow: 23°C	1.4	%	ASTM D955
Water Absorption (23°C, 24 hr)	1.8	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	75.0	MPa	ASTM D638
Tensile Elongation ² (Break)	10	%	ASTM D638
Flexural Modulus ³	3200	MPa	ASTM D790
Flexural Strength ⁴	105	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	72	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	240	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	95.0	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	V-0		UL 94
3.00 mm	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0 - 110	°C	
Drying Time	4.0 - 6.0	hr	
Rear Temperature	235 - 245	°C	
Middle Temperature	240 - 255	°C	
Front Temperature	245 - 265	°C	
Processing (Melt) Temp	245 - 265	°C	
Mold Temperature	40.0 - 60.0	°C	
Injection Rate	Slow-Moderate		
Injection instructions			
Processing Temperature Limit: 270°C			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	2.0 mm/min		
4.	2.0 mm/min		

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