

Kingfa PA66-RG001

Polyamide 66

Kingfa

Message:

Kingfa PA66-RG001 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-RG001 are:

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

The typical application areas of Kingfa PA66-RG001 are: electrical/electronic applications

General Information			
UL YellowCard	E171666-101205190		
Features	No frost		
	High strength		
	Good electrical performance		
	Heat resistance, high		
	Flame retardancy		
Uses	Connector		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm ³	ASTM D792
Molding Shrinkage - Flow (23°C)	1.2 - 1.4	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.60	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	113		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	55.0	MPa	ASTM D638
Tensile Elongation ² (Break)	20	%	ASTM D638
Flexural Modulus ³	2350	MPa	ASTM D790
Flexural Strength ⁴	80.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	75	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 6.40mm	243	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	68.0	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 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	255 - 275	°C	
Middle Temperature	260 - 290	°C	
Front Temperature	270 - 300	°C	
Processing (Melt) Temp	275 - 300	°C	
Mold Temperature	50.0 - 70.0	°C	
Injection Rate	Moderate-Fast		
Injection instructions			
Processing Temperature Limit: 310°C			
NOTE			
1.	10 mm/min		
2.	10 mm/min		
3.	2.0 mm/min		
4.	2.0 mm/min		

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