

KOPA® KN333G20

Polyamide 66
Kolon Plastics, Inc.

Message:

KOPA®KN333G20 is a polyamide 66 (nylon 66) product, which contains a 20% glass fiber reinforced material. It can be processed by injection molding and is available in North America, Latin America, Europe or Asia Pacific. KOPA®KN333G20 applications include electrical/electronic applications, engineering/industrial accessories and the automotive industry.

- Features include:
- flame retardant/rated flame
 - ROHS certification
 - high strength
 - good weather resistance
 - chemical resistance

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	High tensile strength		
	Good wear resistance		
	Good chemical resistance		
	Good weather resistance		
	Self-lubricating		
Uses	Electrical/Electronic Applications		
	Industrial components		
	Application in Automobile Field		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage - Flow	0.50 - 0.80	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 60% RH)	0.40	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
23°C	162	MPa	ASTM D638
23°C	140	MPa	ISO 527-2
Tensile Elongation			
Fracture, 23°C	7.0	%	ASTM D638
Fracture, 23°C	3.0	%	ISO 527-2
Flexural Modulus			

23°C	5980	MPa	ASTM D790
23°C	6000	MPa	ISO 178
Flexural Strength			
23°C	226	MPa	ASTM D790
23°C	210	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C)	88	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	250	°C	ASTM D648
1.8 MPa, not annealed	240	°C	ASTM D648, ISO 75-2/A
Melting Temperature	255	°C	ISO 11357-3, ASTM D3418
CLTE - Flow	3.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	21	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.60		ASTM D150
Arc Resistance	135	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	80 - 100	°C	
Drying Time - Desiccant Dryer	4.0 - 5.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	260	°C	
Middle Temperature	275	°C	
Front Temperature	275	°C	
Nozzle Temperature	280	°C	
Mold Temperature	60 - 80	°C	

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