

KOPA® KN133G30

Polyamide 6
Kolon Plastics, Inc.

Message:
Middle viscosity, G/F 30% reinforced Polyamide6 Compound resin

General Information			
UL YellowCard	E190675-100647265		
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Additive	Lubricant		
Features	Medium viscosity		
Uses	Industrial application		
	Application in Automobile Field		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow	0.50 - 0.70	%	ASTM D955
Transverse flow	0.64	%	ISO 294-4
Flow	0.34	%	ISO 294-4
Water Absorption			
23°C, 24 hr	3.0	%	ISO 62
Balance	0.40	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	120		ASTM D785
R scale	118		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
23°C	172	MPa	ASTM D638
23°C	170	MPa	ISO 527-2
Tensile Elongation			
Fracture, 23°C	9.0	%	ASTM D638
Fracture, 23°C	3.0	%	ISO 527-2
Flexural Modulus			
23°C	8430	MPa	ASTM D790
23°C	7400	MPa	ISO 178

Flexural Strength			
23°C	274	MPa	ASTM D790
23°C	240	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C)	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	210	°C	ASTM D648
1.8 MPa, not annealed	205	°C	ASTM D648
1.8 MPa, not annealed	192	°C	ISO 75-2/A
Peak Melting Temperature	220	°C	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	130	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	230	°C	
Middle Temperature	245	°C	
Front Temperature	250	°C	
Nozzle Temperature	255	°C	
Mold Temperature	60 - 80	°C	

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