

KOPA® KN135HB40SIBL

Polyamide 6
Kolon Plastics, Inc.

Message:

KOPA®KN135HB40SIBL is a polyamide 6 (nylon 6) product. It can be processed by injection molding and is available in North America, Latin America, Europe or Asia Pacific. KOPA®KN135HB40SIBL application areas include engineering/industrial accessories and automobile industry.

Features include:

- flame retardant/rated flame
- Impact resistance
- chemical resistance
- Wear-resistant
- Lubrication

General Information			
Additive	Lubricant		
Features	Impact resistance, good		
	Good electrical performance		
	Good wear resistance		
	Good chemical resistance		
	Self-lubricating		
Uses	Industrial components		
	Application in Automobile Field		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.45	g/cm ³	ASTM D792
--	1.46	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.10 - 0.30	%	ASTM D955
Water Absorption (Equilibrium)	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			
Yield	142	MPa	ASTM D638
23°C	125	MPa	ISO 527-2
Tensile Elongation			
Yield	5.0	%	ASTM D638
Fracture, 23°C	3.0	%	ISO 527-2
Flexural Modulus			

--	10800	MPa	ASTM D790
23°C	6900	MPa	ISO 178
Flexural Strength			
--	240	MPa	ASTM D790
23°C	180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	205	°C	ASTM D648
1.8 MPa, not annealed	190	°C	ASTM D648
1.8 MPa, not annealed	184	°C	ISO 75-2/A
Melting Temperature	220	°C	
CLTE - Flow	4.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	22	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.50		ASTM D150
Arc Resistance	136	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	250	°C	
Front Temperature	255	°C	
Nozzle Temperature	260	°C	
Mold Temperature	60 - 80	°C	

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