

KOPA® KN120

Polyamide 6

Kolon Plastics, Inc.

Message:

KOPA® KN120 is a polyamide 6 (nylon 6) product. It is available in North America, Latin America, Europe or Asia Pacific.

Features include:

flame retardant/rated flame

ROHS certification

Medium viscosity

General Information			
Features	Medium viscosity		
RoHS Compliance	RoHS compliance		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.3 - 1.5	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 60% RH)	1.8	%	ASTM D570
Comonomer Content	< 0.8	%	
Color b	-3.80 - 0.200		
Color L	70.0 - 78.0		
Moisture Content		%	
Relative viscosity-96% h2s04	2.61 - 2.69		
Amino End Groups	43 - 63	meq/kg	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	81.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	100	%	ASTM D638
Flexural Modulus (23°C)	2750	MPa	ASTM D790
Flexural Strength (23°C)	123	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	74	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	180	°C	ASTM D648
1.8 MPa, not annealed	65.0	°C	ASTM D648
Peak Melting Temperature	220	°C	ASTM D3418
CLTE - Flow	8.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.40		ASTM D150

Arc Resistance	120	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

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Recommended distributors for this material

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