

KOPA® KN181D

Polyamide 6
Kolon Plastics, Inc.

Message:

KOPA® KN181D is a Polyamide 6 (Nylon 6) product. It is available in Asia Pacific, Europe, Latin America, or North America. Primary characteristic: flame rated.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.3 to 1.5	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 60% RH)	1.8	%	ASTM D570
Comonomer Content	< 0.8	%	
Moisture Content	< 1000	ppm	
Relative Viscosity ¹	2.6 to 2.7		
Color b	-3.80 to 1.80		
Color L	70.0 to 78.0		
Amino End Groups	42 to 62	meq/kg	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	76.5	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	46	%	ASTM D638
Flexural Modulus (23°C)	2780	MPa	ASTM D790
Flexural Strength (23°C)	124	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 D648A
0.45 MPa, Unannealed	180	°C	
1.8 MPa, Unannealed	65.0	°C	
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
NOTE			
1.	96% H2SO4		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

