

KOPA® KN163HI

Polyamide 6
Kolon Plastics, Inc.

Message:

KOPA® KN163HI is a Polyamide 6 (Nylon 6) product. It is available in Asia Pacific, Europe, Latin America, or North America.
Characteristics include:
Flame Rated
High Viscosity
Impact Resistant

General Information			
Features	Good Impact Resistance		
	High Viscosity		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.8 to 2.2	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 60% RH)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	47.0	MPa	ASTM D638
Tensile Elongation (Yield, 23°C)	90	%	ASTM D638
Flexural Modulus (23°C)	1770	MPa	ASTM D790
Flexural Strength (23°C)	76.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	880	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	130	°C	
1.8 MPa, Unannealed	65.0	°C	
Peak Melting Temperature	215	°C	ASTM D3418
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.20		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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