

# KOPA® KN111

Polyamide 6

Kolon Plastics, Inc.

## Message:

KOPA® KN111 is a Polyamide 6 (Nylon 6) product. It is available in Asia Pacific, Europe, Latin America, or North America. Typical application: Automotive.

Characteristics include:

Flame Rated

Medium Viscosity

General Information			
Features	Medium Viscosity		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	1.3 to 1.5	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 60% RH)	1.8	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	81.0	MPa	ASTM D638
Tensile Elongation (Yield, 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, Unannealed	180	°C	
1.8 MPa, Unannealed	65.0	°C	
Melting Temperature	220	°C	ASTM D1525
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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