

KOPA® KN173ST3R

Polyamide 6
Kolon Plastics, Inc.

Message:

KOPA® KN173ST3R 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	
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.3 to 1.6	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 60% RH)	1.1	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	46.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	500	%	ASTM D638
Flexural Modulus (23°C)	740	MPa	ASTM D790
Flexural Strength (23°C)	36.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	640	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648A
0.45 MPa, Unannealed	150	°C	
1.8 MPa, Unannealed	60.0	°C	
Peak Melting Temperature	220	°C	ASTM D3418
CLTE - Flow	1.0E-4	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	125	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

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