

KOPA® KN173HRV

Polyamide 6
Kolon Plastics, Inc.

Message:

KOPA® KN173HRV is a Polyamide 6 (Nylon 6) product. It is available in Asia Pacific, Europe, Latin America, or North America. Typical application: Wire & Cable. Primary characteristic: high viscosity.

General Information			
Features	High Viscosity		
Uses	Wire Jacketing		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm³	ASTM D792
Molding Shrinkage - Flow	1.3 to 1.5	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 60% RH)	2.0	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	80.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	70	%	ASTM D638
Flexural Modulus (23°C)	2750	MPa	ASTM D790
Flexural Strength (23°C)	115	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	70	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648A
0.45 MPa, Unannealed	170	°C	
1.8 MPa, Unannealed	60.0	°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

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