

KOPA® KN190

Polyamide 6
Kolon Plastics, Inc.

Message:
Polyamide 6 Compound resin, High viscosity, wide uses

General Information			
Features	Viscosity, High		
RoHS Compliance	RoHS compliance		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)	7.0	g/10 min	ASTM D1238
Water Absorption (Equilibrium, 23°C, 60% RH)	1.8	%	ASTM D570
Color b (23°C)	-4.00 - -1.00		
Color L (23°C)	70.0 - 75.0		
Moisture Content (23°C)		%	Karl Fisher
Relative viscosity-96% H2SO4 (23°C)	3.47 - 3.57		
Chip Size (23°C)	135 - 155	ea/g	Internal method
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (23°C)	74.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	65	%	ASTM D638
Flexural Modulus (23°C)	2680	MPa	ASTM D790
Flexural Strength (23°C)	115	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	75	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	180	°C	ASTM D648
1.8 MPa, not annealed	65.0	°C	ASTM D648
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

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