

KOPA® KN178MT40

Polyamide 6
Kolon Plastics, Inc.

Message:
Polyamide 6 Compound resin, mineral reinforced grade

General Information			
Filler / Reinforcement	Mineral filler, 40% filler by weight		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20 - 0.50	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 60% RH)	0.50	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (23°C)	83.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	5.5	%	ISO 527-2
Flexural Modulus (23°C)	4800	MPa	ASTM D790
Flexural Strength (23°C)	127	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	34	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	200	°C	ASTM D648
1.8 MPa, not annealed	175	°C	ASTM D648
Peak Melting Temperature	220	°C	ASTM D3418
CLTE - Flow	4.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	22	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.50		ASTM D150
Arc Resistance	130	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

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