

KOPLA PA6 KNT1020

Polyamide 6

KOPLA Co., Ltd.

Message:

KOPLA PA6 KNT1020 is a Polyamide 6 (Nylon 6) material filled with mineral. It is available in Asia Pacific.

Important attributes of KOPLA PA6 KNT1020 are:

Flame Rated

Good Dimensional Stability

Typical application of KOPLA PA6 KNT1020: Automotive

General Information			
Filler / Reinforcement	Mineral		
Features	Good Dimensional Stability		
Uses	Automotive Exterior Parts		
	Automotive Under the Hood		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30 to 0.90	%	ASTM D955
Water Absorption (23°C, 24 hr)	1.1	%	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)	68.6	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	6.0	%	ASTM D638
Flexural Modulus (23°C)	3920	MPa	ASTM D790
Flexural Strength (23°C)	113	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	49	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	185	°C	
1.8 MPa, Unannealed	140	°C	
Melting Temperature	220	°C	
CLTE - Flow	6.0E-5	cm/cm/°C	ASTM D696

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13 to 1.0E+15	ohms · cm	ASTM D257
Dielectric Strength	22	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	4.00		ASTM D150

Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

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Recommended distributors for this material

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