

KOPLA PA6 KNG1020

Polyamide 6

KOPLA Co., Ltd.

Message:

KOPLA PA6 KNG1020 is a Polyamide 6 (Nylon 6) material filled with glass fiber. It is available in Asia Pacific. Primary attribute of KOPLA PA6 KNG1020: Flame Rated.
Typical application of KOPLA PA6 KNG1020: Automotive

General Information			
Filler / Reinforcement	Glass Fiber		
Uses	Automotive Exterior Parts		
	Automotive Interior Parts		
	Automotive Under the Hood		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.60 to 1.1	%	ASTM D955
Water Absorption (23°C, 24 hr)	1.4	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	142	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	3.5	%	ASTM D638
Flexural Modulus (23°C)	5490	MPa	ASTM D790
Flexural Strength (23°C)	186	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	88	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	210	°C	
1.8 MPa, Unannealed	206	°C	
Melting Temperature	220	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.80		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

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