

KOPLA PA6 KNG1020F

Polyamide 6

KOPLA Co., Ltd.

Message:

KOPLA PA6 KNG1020F is a Polyamide 6 (Nylon 6) material filled with glass fiber. It is available in Asia Pacific.

Important attributes of KOPLA PA6 KNG1020F are:

Flame Rated

Flame Retardant

Typical applications include:

Automotive

Electrical/Electronic Applications

Housings

General Information	
Filler / Reinforcement	Glass Fiber
Features	Flame Retardant
Uses	Automotive Interior Parts
	Electrical Parts
	Housings

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.30 to 1.0	%	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)	132	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	3.0	%	ASTM D638
Flexural Modulus (23°C)	7060	MPa	ASTM D790
Flexural Strength (23°C)	162	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	78	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	200	°C	
1.8 MPa, Unannealed	190	°C	
Melting Temperature	220	°C	
CLTE - Flow	8.0E-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	20	kV/mm	ASTM D149

Dielectric Constant (1 MHz)	3.80		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94

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