

Kinta NB6040G

Polyamide 6

Kinta Technology (Hong Kong) Co., Ltd.

Message:

Kinta NB6040G is a polyamide 6 (nylon 6) product, which contains a 40% glass fiber reinforced material. It is available in the Asia-Pacific region. The main characteristics are: flame retardant/rated flame.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.00 mm)	0.40 - 0.60	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.90	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	195	MPa	ASTM D638
Tensile Elongation ² (Break)	7.0	%	ASTM D638
Flexural Modulus ³	12000	MPa	ASTM D790
Flexural Strength ⁴	280	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-23°C, 3.20 mm	12.5	kJ/m ²	ASTM D256
23°C, 3.20 mm	15.0	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	215	°C	ASTM D648
Melting Temperature	225	°C	DSC
CLTE - Flow	2.0E-5 - 3.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257
Dielectric Strength	19	kV/mm	ASTM D149
Dissipation Factor ⁵ (23°C, 1 MHz)	0.030		ASTM D150
Arc Resistance	104	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.2 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	100 - 110	°C	
Drying Time	4.0	hr	
Rear Temperature	230 - 250	°C	
Middle Temperature	240 - 260	°C	

Front Temperature	250 - 270	°C
Nozzle Temperature	260 - 280	°C
Processing (Melt) Temp	250 - 270	°C
Mold Temperature	80 - 110	°C
Injection Pressure	100 - 160	MPa

NOTE		
1.	10 mm/min	
2.	10 mm/min	
3.	2.0 mm/min	
4.	2.0 mm/min	
5.	60% RH	

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