

Kinta FR6000

Polyamide 6

Kinta Technology (Hong Kong) Co., Ltd.

Message:

Kinta FR6000 is a polyamide 6 (nylon 6) product. It is available in the Asia-Pacific region.

Features include:

flame retardant/rated flame

Flame Retardant

Halogen-free

General Information			
Additive	Flame retardancy		
Features	Halogen-free		
	Flame retardancy		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.00 mm)	0.50 - 0.90	%	ASTM D955
Water Absorption (24 hr)	0.80	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	75.0	MPa	ASTM D638
Tensile Elongation ² (Break)	15	%	ASTM D638
Flexural Modulus ³	3100	MPa	ASTM D790
Flexural Strength ⁴	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	5.00	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	85.0	°C	ASTM D648
Melting Temperature	220	°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	20	kV/mm	ASTM D149
Dissipation Factor ⁵ (23°C, 1 MHz)	0.030		ASTM D150
Arc Resistance	130	sec	ASTM D495
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.2 mm)	V-0		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	240 - 260	°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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