

Kinta FR5000-J003

Polycarbonate

Kinta Technology (Hong Kong) Co., Ltd.

Message:

Kinta FR5000-J003 is a polycarbonate (PC) product. It is available in the Asia-Pacific region. The main characteristics are: flame retardant/rated flame.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.50 - 0.70	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹	60.0	MPa	ASTM D638
Tensile Elongation ² (Break)	80	%	ASTM D638
Flexural Modulus ³	2300	MPa	ASTM D790
Flexural Strength ⁴	85.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	70.0	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	125	°C	ASTM D648
CLTE - Flow	6.3E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+18	ohms · cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.2 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	110 - 120	°C	
Drying Time	4.0	hr	
Rear Temperature	250 - 270	°C	
Middle Temperature	260 - 280	°C	
Front Temperature	270 - 290	°C	
Nozzle Temperature	270 - 290	°C	
Processing (Melt) Temp	260 - 290	°C	
Mold Temperature	80 - 110	°C	
NOTE			
1.	20 mm/min		

2.	20 mm/min
3.	2.0 mm/min
4.	2.0 mm/min

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