

Infino GI-3103

Polycarbonate

LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Infino GI-3103 is a polycarbonate (PC) product that contains a glass fiber reinforced material. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: electrical/electronic applications. The main characteristics are: flame retardant/rated flame.

General Information			
UL YellowCard	E115797-101733098		
Filler / Reinforcement	Glass fiber reinforced material		
Features	General		
Uses	Mobile phone		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.25	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	33	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.25 - 0.41	%	ASTM D955
Transverse flow: 3.20mm	0.30 - 0.42	%	ASTM D955
Lateral flow: 3.20mm	0.30 - 0.42	%	ISO 2577
Traffic: 3.20mm	0.25 - 0.41	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	115		ASTM D785
R scale	115		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3200	MPa	ASTM D638
--	3250	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	55.0	MPa	ASTM D638
Yield	53.0	MPa	ISO 527-2/50
Fracture ³	59.0	MPa	ASTM D638
Fracture	70.0	MPa	ISO 527-2/50
Tensile Elongation			
Fracture ⁴	10	%	ASTM D638
Fracture	10	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	3100	MPa	ASTM D790
-- ⁶	3160	MPa	ISO 178

Flexural Strength			
-- ⁷	86.0	MPa	ASTM D790
-- ⁸	85.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	19	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	230	J/m	ASTM D256
23°C, 6.35 mm	160	J/m	ASTM D256
23°C ¹⁰	18	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 6.40mm	136	°C	ASTM D648
0.45 MPa, unannealed, 4.00mm	134	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	131	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	130	°C	ISO 75-2/A
Flammability	Nominal Value		Test Method
Flame Rating (0.8 mm)	HB		UL 94
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	5.0 mm/min		
5.	5.0 mm/min		
6.	2.8 mm/min		
7.	5.0 mm/min		
8.	2.8 mm/min		
9.	Thickness: 4mm		
10.	Thickness: 4mm		

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