

Infino HF-1023IM

Polycarbonate

LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Infino HF-1023IM is a polycarbonate (PC) product. 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 features are: Rohs certification.

General Information			
UL YellowCard	E115797-219697		
Features	General		
Uses	Mobile phone		
RoHS Compliance	RoHS compliance		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.18	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	22	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.44 - 0.53	%	ASTM D955
Transverse flow: 3.20mm	0.45 - 0.55	%	ASTM D955
Lateral flow: 3.20mm	0.45 - 0.55	%	ISO 2577
Traffic: 3.20mm	0.44 - 0.53	%	ISO 2577
Water Absorption (Equilibrium, 23°C)	0.35	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	120		ASTM D785
R scale	120		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1900	MPa	ASTM D638
--	2100	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	59.0	MPa	ASTM D638
Yield	60.0	MPa	ISO 527-2/50
Fracture ³	69.0	MPa	ASTM D638
Fracture	96.0	MPa	ISO 527-2/50
Tensile Elongation			
Fracture ⁴	120	%	ASTM D638
Fracture	100	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2000	MPa	ASTM D790
-- ⁶	2100	MPa	ISO 178

Flexural Strength			
-- ⁷	83.0	MPa	ASTM D790
-- ⁸	88.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	68	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	690	J/m	ASTM D256
23°C, 6.35 mm	540	J/m	ASTM D256
23°C ¹⁰	63	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, unannealed, 4.00mm	133	°C	ISO 75-2/B
0.45 MPa, annealing, 4.00mm	130	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	126	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	120	°C	ISO 75-2/A
1.8 MPa, annealing, 4.00mm	120	°C	ISO 75-2/A
Vicat Softening Temperature			
--	140	°C	ISO 306/B50
--	142	°C	ISO 306/B120
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	50 mm/min		
5.	2.8 mm/min		
6.	2.0 mm/min		
7.	2.8 mm/min		
8.	2.0 mm/min		
9.	Thickness: 4mm		
10.	Thickness: 4mm		

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