

Infino HI-1001BF

Polycarbonate + ABS

LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Infino HI-1001BF is a polycarbonate acrylonitrile butadiene styrene (PC ABS) product. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: automotive industry.

General Information			
UL YellowCard	E115797-219626		
Features	Electroplateable		
Uses	Application in Automobile Field		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.09	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238, ISO 1133
250°C/10.0 kg	31	g/10 min	ASTM D1238, ISO 1133
250°C/2.16 kg	3.0	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.50 - 0.60	%	ASTM D955
Transverse flow: 3.20mm	0.50 - 0.60	%	ASTM D955
Lateral flow: 3.20mm	0.50 - 0.60	%	ISO 2577
Traffic: 3.20mm	0.50 - 0.60	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	105		ASTM D785
R scale	107		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1900	MPa	ASTM D638
--	1900	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	49.0	MPa	ASTM D638
Yield	47.0	MPa	ISO 527-2/50
Fracture ³	39.0	MPa	ASTM D638
Fracture	41.0	MPa	ISO 527-2/50
Tensile Elongation			
Fracture ⁴	100	%	ASTM D638
Fracture	73	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2000	MPa	ASTM D790
-- ⁶	2000	MPa	ISO 178

Flexural Strength			
-- ⁷	68.0	MPa	ASTM D790
-- ⁸	70.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	47	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
-30°C, 3.18 mm	390	J/m	ASTM D256
-30°C, 6.35 mm	250	J/m	ASTM D256
23°C, 3.18 mm	540	J/m	ASTM D256
23°C, 6.35 mm	480	J/m	ASTM D256
-30°C ¹⁰	35	kJ/m ²	ISO 180/1A
23°C ¹¹	45	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 6.40mm	117	°C	ASTM D648
0.45 MPa, unannealed, 4.00mm	113	°C	ISO 75-2/B
0.45 MPa, annealing, 4.00mm	115	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	100	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	93.0	°C	ISO 75-2/A
1.8 MPa, annealing, 4.00mm	95.0	°C	ISO 75-2/A
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Vicat Softening Temperature	113	°C	ISO 306/B50
Linear thermal expansion coefficient			ASTM E831, ISO 11359-2
Flow: -40 to 40°C	8.5E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Lateral: -40 to 40°C	8.7E-5	cm/cm/°C	ASTM E831, ISO 11359-2
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	50 mm/min		
5.	10 mm/min		
6.	2.0 mm/min		
7.	10 mm/min		
8.	2.0 mm/min		
9.	Thickness: 4mm		
10.	Thickness: 4mm		
11.	Thickness: 4mm		

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