

Infino HI-1001B

Polycarbonate + ABS
SAMSUNG SDI CO., LTD.

Message:

Infino HI-1001B is a Polycarbonate + ABS (PC+ABS) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

General Information			
UL YellowCard	E115797-219626		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	20	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955
Flow : 3.20 mm	0.31 to 0.38	%	
Across Flow : 3.20 mm	0.36 to 0.43	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	115		ASTM D785
R-Scale	107		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2300	MPa	ASTM D638
--	2000	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	61.0	MPa	ASTM D638
Yield	60.0	MPa	ISO 527-2/50
Break ³	48.0	MPa	ASTM D638
Break	50.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	55	%	ASTM D638
Break	15	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2500	MPa	ASTM D790
-- ⁶	3000	MPa	ISO 178
Flexural Strength			
-- ⁷	83.0	MPa	ASTM D790
-- ⁸	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	37	kJ/m ²	ISO 179/1eA
Notched Izod Impact			

23°C, 3.18 mm	440	J/m	ASTM D256
23°C, 6.35 mm	330	J/m	ASTM D256
23°C ¹⁰	53	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	117	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	115	°C	ISO 75-2/B
0.45 MPa, Annealed	115	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	104	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	96.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	103	°C	ISO 75-2/A
Vicat Softening Temperature	111	°C	ISO 306/B50
Injection	Nominal Value	Unit	
Drying Temperature			
--	80.0 to 100	°C	
Desiccant Dryer	80.0 to 100	°C	
Drying Time			
--	4.0 to 6.0	hr	
Desiccant Dryer	2.0 to 4.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	220 to 230	°C	
Middle Temperature	240 to 250	°C	
Front Temperature	260 to 270	°C	
Nozzle Temperature	270	°C	
Mold Temperature	50.0 to 70.0	°C	
Injection Pressure	93.2	MPa	
Back Pressure	0.490 to 1.96	MPa	
Screw Speed	50 to 150	rpm	
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: 4 mm		
10.	Thickness: 4 mm		

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