

Infino HN-1064IA

Polycarbonate
SAMSUNG SDI CO., LTD.

Message:

Infino HN-1064IA is a Polycarbonate (PC) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: flame rated.

General Information			
UL YellowCard	E115797-219700		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
220°C/10.0 kg	17	g/10 min	ASTM D1238
250°C/10.0 kg	17	g/10 min	ISO 1133
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	0.50 to 0.62	%	
Across Flow : 3.20 mm	0.53 to 0.65	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	117		ASTM D785
R-Scale	120		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2000	MPa	ASTM D638
Tensile Strength			
Yield ²	57.0	MPa	ASTM D638
Yield	55.0	MPa	ISO 527-2/50
Break ³	65.0	MPa	ASTM D638
Tensile Elongation ⁴ (Break)	94	%	ASTM D638
Flexural Modulus			
-- ⁵	1700	MPa	ASTM D790
-- ⁶	1700	MPa	ISO 178
Flexural Strength			
-- ⁷	77.0	MPa	ASTM D790
-- ⁸	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	65	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	740	J/m	ASTM D256
23°C, 6.35 mm	640	J/m	ASTM D256
23°C ¹⁰	65	kJ/m ²	ISO 180/1A

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	127	°C	ASTM D648
Vicat Softening Temperature	143	°C	ISO 306/B50
RTI Elec ¹¹ (1.50 mm)	130	°C	UL 746
RTI Imp ¹² (1.50 mm)	130	°C	UL 746
RTI Str ¹³ (1.50 mm)	130	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.750 mm	V-2		
1.50 mm	V-0		
3.00 mm	V-0		
Injection	Nominal Value	Unit	
Drying Temperature			
--	120	°C	
Desiccant Dryer	120	°C	
Drying Time			
--	2.0 to 6.0	hr	
Desiccant Dryer	2.0 to 4.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	240 to 250	°C	
Middle Temperature	260 to 270	°C	
Front Temperature	280 to 290	°C	
Nozzle Temperature	290 to 310	°C	
Mold Temperature	40.0 to 100	°C	
Injection Pressure	49.0 to 245	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		
11.	V-0		
12.	V-0		
13.	V-0		

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