

Infino NH-1021

Polycarbonate + ABS

SAMSUNG SDI CO., LTD.

Message:

Infino NH-1021 is a Polycarbonate + ABS (PC+ABS) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: flame rated.

General Information			
UL YellowCard	E115797-100930245		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	28	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	66.0	MPa	ASTM D638
Yield	67.0	MPa	ISO 527-2/50
Flexural Modulus			
-- ²	2600	MPa	ASTM D790
-- ³	2500	MPa	ISO 178
Flexural Strength			
-- ⁴	93.0	MPa	ASTM D790
-- ⁵	94.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁶ (23°C)	20	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	290	J/m	ASTM D256
23°C ⁷	30	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	97.0	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	96.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	89.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	85.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	100	°C	ISO 306/B50
--	104	°C	ISO 306/B120
Flammability	Nominal Value	Test Method	
Flame Rating		UL 94	

1.00 mm	V-1	
3.00 mm	V-0	
Injection	Nominal Value	Unit
Drying Temperature		
--	80.0	°C
Desiccant Dryer	80.0	°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	98.1	MPa
Back Pressure	0.490 to 1.96	MPa
Screw Speed	50 to 150	rpm

NOTE		
1.	50 mm/min	
2.	2.8 mm/min	
3.	2.0 mm/min	
4.	2.8 mm/min	
5.	2.0 mm/min	
6.	Thickness: 4 mm	
7.	Thickness: 4 mm	

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