

Infino NH-1027HF

Polycarbonate + ABS
SAMSUNG SDI CO., LTD.

Message:

Infino NH-1027HF 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	E115797-634402		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	55	g/10 min	ASTM D1238, ISO 1133
Water Absorption			
23°C, 24 hr	0.20	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	60.0	MPa	ASTM D638
Yield	67.0	MPa	ISO 527-2/50
Flexural Modulus			
-- ²	2400	MPa	ASTM D790
-- ³	2550	MPa	ISO 178
Flexural Strength			
-- ⁴	88.0	MPa	ASTM D790
-- ⁵	89.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁶ (23°C)	17	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	540	J/m	ASTM D256
23°C ⁷	14	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	98.0	°C	ISO 306/B50
Flammability	Nominal Value	Test Method	
Flame Rating		UL 94	
1.00 mm	V-1		
1.20 mm	V-0		

V-0

1.50 mm

5VB

V-0

3.00 mm

5VB

Injection	Nominal Value	Unit
Drying Temperature		
--	85.0	°C
Desiccant Dryer	85.0	°C
Drying Time		
--	2.0	hr
Desiccant Dryer	2.0	hr
Suggested Max Moisture	0.040	%
Rear Temperature	235 to 245	°C
Middle Temperature	240 to 250	°C
Front Temperature	245 to 255	°C
Nozzle Temperature	250	°C
Mold Temperature	40.0 to 80.0	°C
Injection Pressure	98.1	MPa
Back Pressure	0.490 to 2.94	MPa
Screw Speed	50 to 100	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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

