

Infino NH-3402F

Polycarbonate

SAMSUNG SDI CO., LTD.

Message:

PC/GF material with 40% GF reinforcement that can be applied to printer LSU

General Information			
UL YellowCard	E115797-628052		
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Uses	Electrical/Electronic Applications		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.51	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	33	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955
Flow : 3.20 mm	0.11 to 0.13	%	
Across Flow : 3.20 mm	0.14 to 0.17	%	
Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	9800	MPa	ASTM D638
--	10000	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	140	MPa	ASTM D638
Yield	184	MPa	ISO 527-2/50
Break ³	170	MPa	ASTM D638
Break	180	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	3.2	%	ASTM D638
Break	3.2	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	11000	MPa	ASTM D790
-- ⁶	12000	MPa	ISO 178
Flexural Strength			
-- ⁷	180	MPa	ASTM D790
-- ⁸	250	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	17	kJ/m ²	ISO 179/1eA

Notched Izod Impact			
23°C, 3.18 mm	110	J/m	ASTM D256
23°C, 6.35 mm	98	J/m	ASTM D256
23°C ¹⁰	16	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	122	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	110	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	114	°C	ISO 75-2/A
Vicat Softening Temperature	118	°C	ISO 306/B50
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
2.00 mm	V-1		
2.50 mm	V-0		
3.00 mm	V-0		
Injection	Nominal Value	Unit	
Drying Temperature			
--	120	°C	
Desiccant Dryer	120	°C	
Drying Time			
--	4.0 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	°C	
Mold Temperature	70.0 to 100	°C	
Injection Pressure	68.6 to 226	MPa	
Back Pressure	0.490 to 1.96	MPa	
Screw Speed	50 to 150	rpm	
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	5.0 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		

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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

