

Infino HN-3102G

Polycarbonate
SAMSUNG SDI CO., LTD.

Message:

Infino HN-3102G is a Polycarbonate (PC) product filled with glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: flame rated.

General Information			
UL YellowCard	E115797-219722	E115797-256208	E115797-313100
Filler / Reinforcement	Glass Fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.26	g/cm ³	ASTM D792
--	1.27	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
250°C/10.0 kg	33	g/10 min	ASTM D1238
250°C/10.0 kg	31	g/10 min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.30 to 0.40	%	ASTM D955
Ash Content	10	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	90		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3200	MPa	ASTM D638
--	3300	MPa	ISO 527-2/5
Tensile Strength			
Yield ²	84.0	MPa	ASTM D638
Yield	75.0	MPa	ISO 527-2/5
Break ³	64.0	MPa	ASTM D638
Break	69.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ⁴	5.2	%	ASTM D638
Break	5.6	%	ISO 527-2/5
Flexural Modulus			
-- ⁵	4000	MPa	ASTM D790
-- ⁶	3700	MPa	ISO 178
Flexural Strength			
-- ⁷	150	MPa	ASTM D790
-- ⁸	120	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength ⁹ (23°C)	5.9	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	55	J/m	ASTM D256
23°C, 6.35 mm	49	J/m	ASTM D256
23°C ¹⁰	5.6	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	142	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	140	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	137	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	132	°C	ISO 75-2/A
Vicat Softening Temperature			
--	143	°C	ISO 306/B50
--	146	°C	ISO 306/B120
Flammability	Nominal Value	Test Method	
Flame Rating			UL 94
1.50 mm	V-0		
1.60 mm	V-0		
Injection	Nominal Value	Unit	
Drying Temperature			
--	100	°C	
Desiccant Dryer	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	260	°C	
Middle Temperature	260	°C	
Front Temperature	270	°C	
Nozzle Temperature	270	°C	
Mold Temperature	50.0 to 60.0	°C	
Injection Pressure	93.2	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
10.	Thickness: 4 mm

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

