

Infino HN-3203G

Polycarbonate
SAMSUNG SDI CO., LTD.

Message:

Infino HN-3203G 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	E115797-100492396	E115797-219722	
Filler / Reinforcement	Glass Fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
250°C/10.0 kg	11	g/10 min	ASTM D1238
250°C/10.0 kg	9.8	g/10 min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.10 to 0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570
Ash Content	19	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4800	MPa	ASTM D638
--	5000	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	110	MPa	ASTM D638
Yield	101	MPa	ISO 527-2/50
Break ³	98.0	MPa	ASTM D638
Break	101	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	4.1	%	ASTM D638
Break	3.4	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	5400	MPa	ASTM D790
--	5300	MPa	ISO 178
Flexural Strength			
-- ⁶	160	MPa	ASTM D790
--	137	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁷ (23°C)	12	kJ/m ²	ISO 179/1eA

Notched Izod Impact			
23°C, 3.18 mm	160	J/m	ASTM D256
23°C, 6.35 mm	120	J/m	ASTM D256
23°C ⁸	10	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	145	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	145	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	140	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	140	°C	ISO 75-2/A
Vicat Softening Temperature			
--	149	°C	ISO 306/B50
--	152	°C	ISO 306/B120
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	V-0		
3.00 mm	V-0		
6.00 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	250	°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.	2.8 mm/min		
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

