

Infino NH-3208GL

Polycarbonate
SAMSUNG SDI CO., LTD.

Message:

Infino NH-3208GL 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	E115797-219713		
Filler / Reinforcement	Glass Fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.35	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	23	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.20 to 0.40	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5800	MPa	ISO 527-2/50
Tensile Strength			
Yield ¹	100	MPa	ASTM D638
Yield	105	MPa	ISO 527-2/50
Break	120	MPa	ISO 527-2/50
Tensile Strain (Break)	3.0	%	ISO 527-2/50
Flexural Modulus			
-- ²	5800	MPa	ASTM D790
-- ³	5400	MPa	ISO 178
Flexural Strength			
-- ⁴	140	MPa	ASTM D790
-- ⁵	140	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁶ (23°C)	10	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	88	J/m	ASTM D256
23°C ⁷	10	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 4.00 mm	98.0	°C	ISO 75-2/B
0.45 MPa, Annealed	98.0	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	93.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	91.0	°C	ISO 75-2/A

1.8 MPa, Annealed, 4.00 mm	94.0	°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 (0.750 mm)	V-0		UL 94
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.	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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