

Infino SI-3109GL

Polycarbonate
SAMSUNG SDI CO., LTD.

Message:

Infino SI-3109GL 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	E115797-219715		
Filler / Reinforcement	Glass Fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.26	g/cm ³	ASTM D792
--	1.25	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
250°C/10.0 kg	20	g/10 min	ASTM D1238
250°C/10.0 kg	19	g/10 min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.30 to 0.50	%	ASTM D955
Ash Content	9.8	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	89		ASTM D785
R-Scale	120		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2200	MPa	ASTM D638
--	2400	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	56.0	MPa	ASTM D638
Yield	57.0	MPa	ISO 527-2/50
Break ³	47.0	MPa	ASTM D638
Break	46.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	47	%	ASTM D638
Break	15	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2500	MPa	ASTM D790
-- ⁶	2600	MPa	ISO 178
Flexural Strength			
-- ⁷	88.0	MPa	ASTM D790

-- ⁸	88.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	10	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	92	J/m	ASTM D256
23°C, 6.35 mm	80	J/m	ASTM D256
23°C ¹⁰	8.9	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
0.45 MPa, Annealed	140	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	131	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	127	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	128	°C	ISO 75-2/A
Vicat Softening Temperature			
--	145	°C	ISO 306/B50
--	147	°C	ISO 306/B120
Flammability	Nominal Value		Test Method
Flame Rating (0.800 mm)	V-2		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	260	°C	
Middle Temperature	260	°C	
Front Temperature	270	°C	
Nozzle Temperature	270	°C	
Mold Temperature	70.0 to 100	°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.	50 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

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Recommended distributors for this material

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