

Infino HM-3301GL

Polycarbonate
SAMSUNG SDI CO., LTD.

Message:
PC/GF material that is used for electric and electronic parts

General Information			
UL YellowCard	E115797-219699		
Filler / Reinforcement	Glass Fiber		
Uses	Electrical/Electronic Applications		
RoHS Compliance	RoHS Compliant		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.41	g/cm ³	ASTM D792
--	1.39	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			
250°C/10.0 kg	7.0	g/10 min	ASTM D1238
250°C/10.0 kg	5.4	g/10 min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.10 to 0.30	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
R-Scale	93		ASTM D785
R-Scale	119		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7200	MPa	ISO 527-2/50
Tensile Strength			
Yield ¹	130	MPa	ASTM D638
Yield	115	MPa	ISO 527-2/50
Break	115	MPa	ISO 527-2/50
Tensile Strain (Break)	2.7	%	ISO 527-2/50
Flexural Modulus			
-- ²	7700	MPa	ASTM D790
-- ³	7900	MPa	ISO 178
Flexural Strength			
-- ⁴	200	MPa	ASTM D790
-- ⁵	153	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁶ (23°C)	11	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C, 6.35 mm)	140	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, Unannealed, 4.00 mm	146	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	143	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	142	°C	ISO 75-2/A
Vicat Softening Temperature			
--	150	°C	ISO 306/B50
--	152	°C	ISO 306/B120
Electrical	Nominal Value		Test Method
Dielectric Constant (10 MHz)	3.30		ASTM D150
Dissipation Factor (10 MHz)	9.0E-3		ASTM D150
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
	V-2		
1.50 mm	V-1		
3.00 mm	V-0		
6.00 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	60.0 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.	50 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		

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