

Infino LS-1150G

Polycarbonate + ABS
SAMSUNG SDI CO., LTD.

Message:
Material with 15% GF reinforcement that can be applied to mold frame for LCD BLU

General Information			
UL YellowCard	E115797-586273		
Filler / Reinforcement	Glass Fiber		
Uses	Electrical/Electronic Applications		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	24	g/10 min	ASTM D1238, ISO 1133
Ash Content	15	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4500	MPa	ISO 527-2/50
Tensile Strength			
Yield ¹	88.0	MPa	ASTM D638
Yield	86.0	MPa	ISO 527-2/50
Break	98.0	MPa	ISO 527-2/50
Tensile Strain (Break)	3.6	%	ISO 527-2/50
Flexural Modulus			
-- ²	4500	MPa	ASTM D790
-- ³	4400	MPa	ISO 178
Flexural Strength			
-- ⁴	140	MPa	ASTM D790
-- ⁵	135	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁶ (23°C)	9.9	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	88	J/m	ASTM D256
23°C ⁷	8.2	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 4.00 mm	122	°C	ISO 75-2/B
0.45 MPa, Annealed	128	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	127	°C	ASTM D648

1.8 MPa, Unannealed, 4.00 mm	120	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	123	°C	ISO 75-2/A
Vicat Softening Temperature			
--	128	°C	ISO 306/B50
--	130	°C	ISO 306/B120
Flammability	Nominal Value	Test Method	
Flame Rating (0.800 to 3.00 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	250 to 260	°C	
Middle Temperature	270	°C	
Front Temperature	280	°C	
Nozzle Temperature	280	°C	
Mold Temperature	50.0 to 80.0	°C	
Injection Pressure	58.8 to 216	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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