

Infino LB-3150GW

Polycarbonate

SAMSUNG SDI CO., LTD.

Message:

High-impact resistant PC/GF material that can be used for middle mold frame of LCD TV BLU

General Information			
UL YellowCard	E115797-219708		
Filler / Reinforcement	Glass Fiber		
Features	High Impact Resistance		
Uses	Electrical Housing		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	26	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.30 to 0.40	%	ASTM D955
Ash Content			
--	15	%	ISO 3451
--	15	%	ASTM D5630
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	116		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3800	MPa	ASTM D638
--	4000	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	69.0	MPa	ASTM D638
Yield	72.0	MPa	ISO 527-2/50
Break ³	69.0	MPa	ASTM D638
Break	69.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	4.3	%	ASTM D638
Break	4.1	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	4500	MPa	ASTM D790
-- ⁶	3800	MPa	ISO 178
Flexural Strength			
-- ⁷	120	MPa	ASTM D790
-- ⁸	114	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength ⁹ (23°C)	7.4	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	79	J/m	ASTM D256
23°C ¹⁰	7.7	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	141	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	138	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	135	°C	ISO 75-2/A
Vicat Softening Temperature			
--	144	°C	ISO 306/B50
--	146	°C	ISO 306/B120
Flammability	Nominal Value	Test Method	
Flame Rating (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 to 290	°C	
Nozzle Temperature	290	°C	
Mold Temperature	80.0 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.	5.0 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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