

Infino LS-3104G

Polycarbonate

SAMSUNG SDI CO., LTD.

Message:

High-impact resistant PC/GF material with 10% GF reinforcement for LCD BLF

General Information			
UL YellowCard	E115797-520431		
Filler / Reinforcement	Glass Fiber		
Features	High Impact Resistance		
Uses	Electrical/Electronic Applications		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	30	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	0.36 to 0.44	%	
Across Flow : 3.20 mm	0.33 to 0.40	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	3300	MPa	ASTM D638
Tensile Strength			
Yield ²	78.0	MPa	ASTM D638
Yield	80.0	MPa	ISO 527-2/50
Break ³	77.0	MPa	ASTM D638
Tensile Elongation ⁴ (Break)	5.0	%	ASTM D638
Flexural Modulus			
-- ⁵	3700	MPa	ASTM D790
-- ⁶	3800	MPa	ISO 178
Flexural Strength			
-- ⁷	140	MPa	ASTM D790
-- ⁸	130	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	6.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact			ASTM D256
23°C, 3.18 mm	79	J/m	
23°C, 6.35 mm	59	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			

1.8 MPa, Unannealed, 6.40 mm	135	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	135	°C	ISO 75-2/A
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	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

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