

Infino CF-3104HF

Polycarbonate

SAMSUNG SDI CO., LTD.

Message:

High-impact PC/GF material for the high flowability exterior material of slim mobile phone of GF 10%

General Information			
UL YellowCard	E115797-640431		
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	High Flow		
	High Impact Resistance		
Uses	Cell Phones		
RoHS Compliance	RoHS Compliant		
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)	23	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow : 3.20 mm	0.30 to 0.50	%	ASTM D955, ISO 2577
Across Flow : 3.20 mm	0.30 to 0.50	%	ASTM D955
Water Absorption			
23°C, 24 hr	0.30	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.30	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	116		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	59.0	MPa	ASTM D638
Yield	60.0	MPa	ISO 527-2/5
Flexural Modulus			
-- ²	2900	MPa	ASTM D790
-- ³	3000	MPa	ISO 178
Flexural Strength			
-- ⁴	93.0	MPa	ASTM D790
-- ⁵	95.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁶ (23°C)	27	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	280	J/m	ASTM D256

23°C ⁷	27	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	141	°C	ASTM D648
Vicat Softening Temperature	137	°C	ISO 306/B50
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.800 mm	V-2		
3.20 mm	V-1		
Injection	Nominal Value	Unit	
Drying Temperature			
--	100	°C	
Desiccant Dryer	100	°C	
Drying Time			
--	4.0 to 6.0	hr	
Desiccant Dryer	2.0 to 4.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	270	°C	
Middle Temperature	280 to 290	°C	
Front Temperature	300	°C	
Nozzle Temperature	300	°C	
Mold Temperature	80.0 to 120	°C	
Injection Pressure	98.1	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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