

Infino CF-1050

Polycarbonate

SAMSUNG SDI CO., LTD.

Message:

High-impact material for the exterior material of mobile phone.

General Information			
UL YellowCard	E115797-509390		
Features	High Impact Resistance		
Uses	Cell Phones		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	18	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2000	MPa	ISO 527-2/50
Tensile Strength			
Yield ¹	59.0	MPa	ASTM D638
Yield	55.0	MPa	ISO 527-2/50
Break	69.0	MPa	ISO 527-2/50
Tensile Strain (Break)	110	%	ISO 527-2/50
Flexural Modulus			
-- ²	2000	MPa	ASTM D790
-- ³	2100	MPa	ISO 178
Flexural Strength			
-- ⁴	83.0	MPa	ASTM D790
-- ⁵	84.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁶ (23°C)	60	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	690	J/m	ASTM D256
23°C, 6.35 mm	540	J/m	ASTM D256
23°C ⁷	60	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 4.00 mm	136	°C	ISO 75-2/B
0.45 MPa, Annealed	136	°C	ISO 75-2/B
1.8 MPa, Unannealed, 4.00 mm	121	°C	ISO 75-2/A

1.8 MPa, Annealed, 4.00 mm	125	°C	ISO 75-2/A
Vicat Softening Temperature			
--	141	°C	ISO 306/B50
--	145	°C	ISO 306/B120
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.800 mm	V-2		
2.50 mm	V-2		
3.00 mm	V-2		
Injection	Nominal Value	Unit	
Drying Temperature			
--	100	°C	
Desiccant Dryer	100	°C	
Drying Time			
--	2.0 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 to 310	°C	
Mold Temperature	40.0 to 100	°C	
Injection Pressure	49.0 to 245	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		
7.	Thickness: 4 mm		

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