

Infino CF-1070

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			
--	1.20	g/cm³	ASTM D792
--	1.18	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	13	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	59.0	MPa	ASTM D638
Yield	58.0	MPa	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	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁶ (23°C)	60	kJ/m²	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	65	kJ/m²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	138	°C	ISO 306/B50
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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