

Infino HP-1011

Polycarbonate + ABS

SAMSUNG SDI CO., LTD.

Message:

Material with superior flowability and small gas generation that can be applied to the exterior material of mobile phone

General Information			
Features	Good Flow		
Uses	Cell Phones		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	35	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1900	MPa	ISO 527-2/50
Tensile Strength			
Yield ¹	49.0	MPa	ASTM D638
Yield	46.0	MPa	ISO 527-2/50
Break	48.0	MPa	ISO 527-2/50
Tensile Strain (Break)	92	%	ISO 527-2/50
Flexural Modulus			
-- ²	1800	MPa	ASTM D790
-- ³	1910	MPa	ISO 178
Flexural Strength			
-- ⁴	69.0	MPa	ASTM D790
-- ⁵	68.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁶ (23°C)	56	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	590	J/m	ASTM D256
23°C, 6.35 mm	460	J/m	ASTM D256
23°C ⁷	50	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 4.00 mm	122	°C	ISO 75-2/B
0.45 MPa, Annealed	123	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	109	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	99.0	°C	ISO 75-2/A

1.8 MPa, Annealed, 4.00 mm	105	°C	ISO 75-2/A
Vicat Softening Temperature			
--	122	°C	ISO 306/B50
--	124	°C	ISO 306/B120
Injection	Nominal Value	Unit	
Drying Temperature			
--	80.0	°C	
Desiccant Dryer	80.0	°C	
Drying Time			
--	4.0 to 6.0	hr	
Desiccant Dryer	2.0 to 4.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	220 to 230	°C	
Middle Temperature	240 to 250	°C	
Front Temperature	260 to 270	°C	
Nozzle Temperature	270	°C	
Mold Temperature	50.0 to 70.0	°C	
Injection Pressure	98.1	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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