

Infino HP-1000P

Polycarbonate + ABS

SAMSUNG SDI CO., LTD.

Message:

Material that can be applied to the exterior material of mobile phone, wheel cap, rice cooker, electric iron etc. with the characteristic of high flowability as well as refrigerator door handle and panel.

General Information			
UL YellowCard	E115797-219634		
Features	High Flow		
Uses	Automotive Exterior Parts		
	Automotive Instrument Panel		
	Cell Phones		
	Electrical/Electronic Applications		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	22	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.70	%	ASTM D955, ISO 2577

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	114		ASTM D785, ISO 2039-2

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2000	MPa	ASTM D638
--	2000	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	57.0	MPa	ASTM D638
Yield	64.0	MPa	ISO 527-2/50
Break ³	64.0	MPa	ASTM D638
Break	64.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	110	%	ASTM D638
Break	120	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	1900	MPa	ASTM D790
-- ⁶	2000	MPa	ISO 178
Flexural Strength			
-- ⁷	74.0	MPa	ASTM D790
-- ⁸	78.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
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Charpy Notched Impact Strength ⁹ (23°C)	53	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	580	J/m	ASTM D256
23°C, 6.35 mm	520	J/m	ASTM D256
23°C ¹⁰	49	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	136	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	131	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	124	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	115	°C	ISO 75-2/A
Vicat Softening Temperature	133	°C	ISO 306/B50
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	HB		
3.00 mm	HB		
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.	50 mm/min		
3.	50 mm/min		
4.	50 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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