

Infino GW-1010

Polycarbonate

SAMSUNG SDI CO., LTD.

Message:

Infino GW-1010 is a Polycarbonate (PC) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

General Information			
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
Molding Shrinkage			
Flow : 3.20 mm	0.50 to 0.70	%	ASTM D955
Across Flow : 3.20 mm	0.53 to 0.65	%	ISO 2577
Flow : 3.20 mm	0.51 to 0.62	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	116		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1900	MPa	ISO 527-2/50
Tensile Strength			
Yield ¹	59.0	MPa	ASTM D638
Yield	59.0	MPa	ISO 527-2/50
Break	63.0	MPa	ISO 527-2/50
Tensile Strain (Break)	100	%	ISO 527-2/50
Flexural Modulus			
-- ²	2000	MPa	ASTM D790
-- ³	2040	MPa	ISO 178
Flexural Strength			
-- ⁴	78.0	MPa	ASTM D790
-- ⁵	82.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁶ (23°C)	62	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	790	J/m	ASTM D256
23°C ⁷	80	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	137	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	135	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	126	°C	ASTM D648

1.8 MPa, Unannealed, 4.00 mm	120	°C	ISO 75-2/A
Vicat Softening Temperature	140	°C	ISO 306/B50
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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