

Infino SC-1100R

Polycarbonate
SAMSUNG SDI CO., LTD.

Message:

Infino SC-1100R is a Polycarbonate (PC) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: flame rated.

General Information			
UL YellowCard		E115797-100059836	
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
300°C/1.2 kg	12	g/10 min	ASTM D1238
300°C/1.2 kg	9.0	g/10 min	ISO 1133
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	0.50 to 0.70	%	
Across Flow : 3.20 mm	0.50 to 0.70	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		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	63.0	MPa	ASTM D638
Yield	60.0	MPa	ISO 527-2/50
Break ³	64.0	MPa	ASTM D638
Tensile Elongation			
Break ⁴	110	%	ASTM D638
Break	110	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2300	MPa	ASTM D790
-- ⁶	2200	MPa	ISO 178
Flexural Strength			
-- ⁷	90.0	MPa	ASTM D790
-- ⁸	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	25	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	860	J/m	ASTM D256

23°C, 6.35 mm	150	J/m	ASTM D256
23°C ¹⁰	25	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	140	°C	ASTM D648
1.8 MPa, Unannealed, 6.40 mm	135	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	125	°C	ISO 75-2/A
Vicat Softening Temperature	140	°C	ISO 306/B50
Flammability	Nominal Value		Test Method
Flame Rating (0.800 to 3.00 mm)	V-2		UL 94
Injection	Nominal Value	Unit	
Drying Temperature			
--	80.0	°C	
Desiccant Dryer	80.0	°C	
Drying Time			
--	4.0 to 6.0	hr	
Desiccant Dryer	3.0 to 4.0	hr	
Suggested Max Moisture	0.040	%	
Rear Temperature	100 to 260	°C	
Middle Temperature	270	°C	
Front Temperature	270 to 280	°C	
Nozzle Temperature	280	°C	
Mold Temperature	80.0 to 110	°C	
Injection Pressure	98.1	MPa	
Back Pressure	0.981 to 1.96	MPa	
Screw Speed	30 to 50	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		
10.	Thickness: 4 mm		

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