

Infino SC-1220R

Polycarbonate
SAMSUNG SDI CO., LTD.

Message:

Infino SC-1220R 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	E115797-100059837		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	18	g/10 min	ASTM D1238, ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	59.0	MPa	ASTM D638
Yield	63.0	MPa	ISO 527-2/5
Flexural Modulus			
-- ²	2200	MPa	ASTM D790
-- ³	2260	MPa	ISO 178
Flexural Strength			
-- ⁴	83.0	MPa	ASTM D790
-- ⁵	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁶ (23°C)	60	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	No Break (Ductile Failure)		ASTM D256
23°C ⁷	65	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (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			UL 94
0.800 mm	V-2		
3.20 mm	V-2		
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.	10 mm/min	
3.	2.0 mm/min	
4.	10 mm/min	
5.	2.0 mm/min	
6.	Thickness: 4 mm	
7.	Thickness: 4 mm	

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