

Infino TN-1200

Polycarbonate
SAMSUNG SDI CO., LTD.

Message:

Infino TN-1200 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	E115797-100567251		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	60	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955
Flow : 3.20 mm	0.36 to 0.44	%	
Across Flow : 3.20 mm	0.37 to 0.46	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2400	MPa	ASTM D638
--	2500	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	69.0	MPa	ASTM D638
Yield	70.0	MPa	ISO 527-2/50
Break ³	64.0	MPa	ASTM D638
Break	67.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	83	%	ASTM D638
Break	98	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2600	MPa	ASTM D790
-- ⁶	2600	MPa	ISO 178
Flexural Strength			
-- ⁷	110	MPa	ASTM D790
-- ⁸	100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	5.4	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	44	J/m	ASTM D256
23°C ¹⁰	4.2	kJ/m ²	ISO 180/1A

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	102	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	100	°C	ISO 75-2/B
0.45 MPa, Annealed	102	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	95.0	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	91.0	°C	ISO 75-2/A
1.8 MPa, Annealed, 4.00 mm	99.0	°C	ISO 75-2/A
Vicat Softening Temperature	108	°C	ISO 306/B50
Flammability	Nominal Value		Test Method
Flame Rating (2.00 mm)	V-0		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance (3200 µm)	89.0	%	ASTM D1003
Haze (3200 µm)	0.60	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature			
--	120	°C	
Desiccant Dryer	100	°C	
Drying Time			
--	4.0 to 6.0	hr	
Desiccant Dryer	2.0 to 4.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	305 to 310	°C	
Middle Temperature	310 to 315	°C	
Front Temperature	315	°C	
Nozzle Temperature	315	°C	
Mold Temperature	130 to 160	°C	
Injection Pressure	147	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		
10.	Thickness: 4 mm		

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