

Infino TN-1100

Polycarbonate
SAMSUNG SDI CO., LTD.

Message:

Infino TN-1100 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		E115797-100447946	
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	75	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 3.20 mm	0.49 to 0.60	%	
Across Flow : 3.20 mm	0.51 to 0.62	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	123		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2400	MPa	ASTM D638
--	2400	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	73.0	MPa	ASTM D638
Yield	73.0	MPa	ISO 527-2/50
Break ³	64.0	MPa	ASTM D638
Break	62.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	87	%	ASTM D638
Break	87	%	ISO 527-2/50
Flexural Modulus ⁵			
--	2600	MPa	ASTM D790
--	2650	MPa	ISO 178
Flexural Strength ⁶			
--	110	MPa	ASTM D790
--	108	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁷ (23°C)	5.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	39	J/m	ASTM D256
23°C ⁸	4.5	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	106	°C	ISO 306/B50
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
2.00 mm	V-1		
2.50 mm	V-0		
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			
--	90.0	°C	
Desiccant Dryer	90.0	°C	
Drying Time			
--	2.0 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	40.0 to 120	°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.	50 mm/min		
3.	50 mm/min		
4.	50 mm/min		
5.	2.8 mm/min		
6.	2.8 mm/min		
7.	Thickness: 4 mm		
8.	Thickness: 4 mm		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

