

Infino TH-1100

Polycarbonate
SAMSUNG SDI CO., LTD.

Message:

Infino TH-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	E115797-100300963		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	17	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955, ISO 2577
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)	119		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2060	MPa	ASTM D638
--	2000	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	63.7	MPa	ASTM D638
Yield	60.0	MPa	ISO 527-2/50
Break ³	68.6	MPa	ASTM D638
Break	60.0	MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	100	%	ASTM D638
Break	92	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2160	MPa	ASTM D790
-- ⁶	2400	MPa	ISO 178
Flexural Strength			
-- ⁷	94.1	MPa	ASTM D790
-- ⁸	95.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	> 49	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.40 mm	130	°C	ASTM D648

1.8 MPa, Unannealed, 4.00 mm	123	°C	ISO 75-2/A
Vicat Softening Temperature	144	°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)	86.0	%	ASTM D1003
Haze (3200 μm)	2.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature			
--	110	°C	
Desiccant Dryer	110	°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	290	°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.	2.0 mm/min		
7.	2.8 mm/min		
8.	2.0 mm/min		

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