

Infino HN-3104

Polycarbonate

SAMSUNG SDI CO., LTD.

Message:

UV resistance : dE < 1.0 for Light Grey color [UV-A (350nm), 0.68W/m², 60?, 8hrs -> Darkness, 50?, 4hrs, 6cycle]

General Information			
UL YellowCard	E115797-100904740		
Filler / Reinforcement	Glass Fiber		
Features	Good UV Resistance		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238, ISO 1133
250°C/10.0 kg	13	g/10 min	
260°C/5.0 kg	8.0	g/10 min	
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	0.10	%	
Across Flow : 3.20 mm	0.10	%	
Ash Content			
--	11	%	ISO 3451
--	11	%	ASTM D5630
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3400	MPa	ASTM D638
--	3500	MPa	ISO 527-2/5
Tensile Strength			
Yield ²	54.0	MPa	ASTM D638
Yield	60.0	MPa	ISO 527-2/5
Break ³	54.0	MPa	ASTM D638
Break	60.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ⁴	6.0	%	ASTM D638
Break	6.0	%	ISO 527-2/5
Flexural Modulus			
-- ⁵	3500	MPa	ASTM D790
-- ⁶	3500	MPa	ISO 178
Flexural Strength			
-- ⁷	83.0	MPa	ASTM D790

-- ⁸	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	10	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	98	J/m	ASTM D256
23°C, 6.35 mm	79	J/m	ASTM D256
23°C ¹⁰	10	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	139	°C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	136	°C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	140	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	137	°C	ISO 75-2/A
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		
3.00 mm	V-0		
Glow Wire Flammability Index (1.50 mm)	960	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature			
--	100	°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	260	°C	
Middle Temperature	260	°C	
Front Temperature	270	°C	
Nozzle Temperature	270	°C	
Mold Temperature	50.0 to 60.0	°C	
Injection Pressure	93.2	MPa	
Back Pressure	0.490 to 1.96	MPa	
Screw Speed	50 to 150	rpm	
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	5.0 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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