

Infino SA-1100

Polycarbonate

LOTTE ADVANCED MATERIALS CO., LTD.

PROSPECTOR[®]

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Technical Data

Product Description

Infino SA-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

Material Status	• Commercial: Active
Literature ¹	• Processing (English) • Technical Information - ASTM (English) • Technical Information - ISO (English)
UL Yellow Card ²	• E115797-100736961
Search for UL Yellow Card	• LOTTE ADVANCED MATERIALS CO., LTD. • Infino
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity (Natural)	1.20 g/cm ³	ASTM D792 ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	9.0 g/10 min	ASTM D1238 ISO 1133
Molding Shrinkage		
Flow : 3.20 mm	0.46 to 0.56 %	ASTM D955
Across Flow : 3.20 mm	0.48 to 0.58 %	ASTM D955
Across Flow : 2.00 mm	0.48 to 0.58 %	ISO 294-4
Flow : 2.00 mm	0.46 to 0.56 %	ISO 294-4

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		
-- ⁴	2000 MPa	ASTM D638
--	2050 MPa	ISO 527-2/50
Tensile Strength		
Yield ⁴	64.0 MPa	ASTM D638
Yield	63.0 MPa	ISO 527-2/50
Break ⁴	66.0 MPa	ASTM D638
Break	70.0 MPa	ISO 527-2/50
Tensile Elongation		
Break ⁴	91 %	ASTM D638
Break	90 %	ISO 527-2/50
Flexural Modulus		
-- ⁵	2300 MPa	ASTM D790
-- ⁶	2260 MPa	ISO 178
Flexural Strength		
-- ⁵	96.0 MPa	ASTM D790
-- ⁶	90.0 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength ⁷ (23°C)	70 kJ/m ²	ISO 179/1eA
Notched Izod Impact		
23°C, 3.18 mm	690 J/m	ASTM D256
23°C, 6.35 mm	200 J/m	ASTM D256
23°C ⁷	70 kJ/m ²	ISO 180/1A

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	120	ASTM D785 ISO 2039-2



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Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
1.8 MPa, Unannealed, 6.40 mm	127 °C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	125 °C	ISO 75-2/A
Vicat Softening Temperature	142 °C	ISO 306/B50
Electrical	Nominal Value Unit	Test Method
Comparative Tracking Index (CTI)	PLC 3	IEC 60112
Flammability	Nominal Value Unit	Test Method
Flame Rating (1.5 to 3.0 mm)	V-2	UL 94
Glow Wire Ignition Temperature (1.5 mm)	875 °C 875 °C	IEC 60695-2-13
Injection	Nominal Value Unit	
Drying Temperature		
Desiccant Dryer	110 °C	
Hot Air Dryer	110 °C	
Drying Time		
Desiccant Dryer	4.0 hr	
Hot Air Dryer	4.0 hr	
Suggested Max Moisture	0.020 to 0.030 %	
Rear Temperature	240 to 250 °C	
Middle Temperature	260 to 270 °C	
Front Temperature	280 to 285 °C	
Nozzle Temperature	290 °C	
Mold Temperature	50 to 80 °C	
Injection Pressure	68.6 to 206 MPa	
Back Pressure	0.490 to 1.96 MPa	
Screw Speed	30 to 70 rpm	

Injection Notes

Hot Runner Temperature: 280°C

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ 50 mm/min

⁵ 2.8 mm/min

⁶ 2.0 mm/min

⁷ 4mm

