

Infino SA-1220

Polycarbonate

LOTTE ADVANCED MATERIALS CO., LTD.

PROSPECTOR[®]

www.ulprospector.com

Technical Data

Product Description

Infino SA-1220 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	• E115797-100729045		
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)	20 g/10 min	ASTM D1238 ISO 1133
Molding Shrinkage		
Flow : 3.20 mm	0.50 to 0.70 %	ASTM D955
Across Flow : 3.20 mm	0.50 to 0.70 %	ASTM D955
Across Flow : 2.00 mm	0.50 to 0.70 %	ISO 294-4
Flow : 2.00 mm	0.50 to 0.70 %	ISO 294-4

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		
-- ⁴	2100 MPa	ASTM D638
--	2000 MPa	ISO 527-2/50
Tensile Strength		
Yield ⁴	64.0 MPa	ASTM D638
Yield	60.0 MPa	ISO 527-2/50
Break ⁴	64.0 MPa	ASTM D638
Break	65.0 MPa	ISO 527-2/50
Tensile Elongation		
Break ⁴	65 %	ASTM D638
Break	65 %	ISO 527-2/50
Flexural Modulus		
-- ⁵	2300 MPa	ASTM D790
-- ⁶	2050 MPa	ISO 178
Flexural Strength		
-- ⁵	97.0 MPa	ASTM D790
-- ⁶	90.0 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength ⁷ (23°C)	25 kJ/m ²	ISO 179/1eA
Notched Izod Impact		
23°C, 3.18 mm	690 J/m	ASTM D256
23°C, 6.35 mm	120 J/m	ASTM D256
23°C ⁷	45 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		
0.45 MPa, Unannealed, 6.40 mm	130 °C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	130 °C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	120 °C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	120 °C	ISO 75-2/A
Vicat Softening Temperature	138 °C	ISO 306/B50

Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
0.75 mm	V-2	
3.0 mm	V-2	

Injection	Nominal Value Unit
Drying Temperature	
Desiccant Dryer	100 °C
Hot Air Dryer	100 °C
Drying Time	
Desiccant Dryer	3.0 to 4.0 hr
Hot Air Dryer	4.0 to 6.0 hr
Suggested Max Moisture	0.040 %
Rear Temperature	250 to 260 °C
Middle Temperature	260 to 270 °C
Front Temperature	270 to 280 °C
Nozzle Temperature	280 °C
Mold Temperature	80 to 110 °C
Injection Pressure	98.1 MPa
Back Pressure	0.981 to 1.96 MPa
Screw Speed	30 to 50 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

