

# Infino SC-1220UR

Polycarbonate

Lotte Chemical Corporation

**PROSPECTOR**<sup>®</sup>

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## Technical Data

### Product Description

Infino SC-1220UR is a Polycarbonate (PC) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary attribute of Infino SC-1220UR: Flame Rated.

### General

Material Status	• Commercial: Active		
Literature <sup>1</sup>	• <a href="#">Processing (English)</a> • <a href="#">Technical Information - ASTM (English)</a> • <a href="#">Technical Information - ISO (English)</a>		
UL Yellow Card <sup>2</sup>	• <a href="#">E115797-100059837</a>		
Search for UL Yellow Card	• <a href="#">Lotte Chemical Corporation</a> • <a href="#">Infino</a>		
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 <sup>3</sup>	ASTM D792 ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	22 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		
-- <sup>4</sup>	2300 MPa	ASTM D638
--	2300 MPa	ISO 527-1/50
Tensile Strength		
Yield <sup>4</sup>	63.0 MPa	ASTM D638
Yield	64.0 MPa	ISO 527-2/50
Break <sup>4</sup>	63.0 MPa	ASTM D638
Break	64.0 MPa	ISO 527-2/50
Tensile Elongation		
Break <sup>4</sup>	110 %	ASTM D638
Break	110 %	ISO 527-2/50
Flexural Modulus		
-- <sup>5</sup>	2300 MPa	ASTM D790
-- <sup>6</sup>	2300 MPa	ISO 178
Flexural Strength		
-- <sup>5</sup>	90.0 MPa	ASTM D790
-- <sup>6</sup>	92.0 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength <sup>7</sup> (23°C)	60 kJ/m <sup>2</sup>	ISO 179/1eA
Notched Izod Impact		
23°C, 3.18 mm	740 J/m	ASTM D256
23°C, 6.35 mm	98 J/m	ASTM D256
23°C <sup>7</sup>	65 kJ/m <sup>2</sup>	ISO 180/1A
Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	120	ASTM D785 ISO 2039-2



Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed, 6.40 mm	136 °C	ASTM D648
0.45 MPa, Unannealed, 4.00 mm	136 °C	ISO 75-2/B
1.8 MPa, Unannealed, 6.40 mm	125 °C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	123 °C	ISO 75-2/A
Vicat Softening Temperature	145 °C	ISO 306/B50

Flammability	Nominal Value Unit	Test Method
Flame Rating (0.8 to 3.2 mm)	V-2	UL 94

Injection	Nominal Value Unit
Drying Temperature	120 °C
Drying Time	4.0 hr
Suggested Max Moisture	0.050 %
Rear Temperature	50 to 80 °C
Middle Temperature	250 to 270 °C
Front Temperature	270 to 300 °C
Nozzle Temperature	300 °C
Mold Temperature	80 to 120 °C
Injection Pressure	6.37 MPa
Back Pressure	0.981 to 1.96 MPa
Screw Speed	120 to 130 rpm

**Injection Notes**  
 Hot Runner Temperature, Manifold: 290°C  
 Hot Runner Temperature, Valve Nozzle: 300°C

**Notes**

- <sup>1</sup> 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.
- <sup>2</sup> 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.
- <sup>3</sup> Typical properties: these are not to be construed as specifications.
- <sup>4</sup> 50 mm/min
- <sup>5</sup> 2.8 mm/min
- <sup>6</sup> 2.0 mm/min
- <sup>7</sup> 4mm

