

# Infino QC-1100UR

Polycarbonate

Lotte Chemical Corporation

PROSPECTOR®

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## Technical Data

### Product Description

Infino QC-1100UR is a Polycarbonate (PC) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary attribute of Infino QC-1100UR: Flame Rated.

### General

Material Status	<ul style="list-style-type: none"><li>Commercial: Active</li></ul>
Literature <sup>1</sup>	<ul style="list-style-type: none"><li>Processing (English)</li><li>Technical Information - ASTM (English)</li><li>Technical Information - ISO (English)</li></ul>
UL Yellow Card <sup>2</sup>	<ul style="list-style-type: none"><li>E115797-103061363</li></ul>
Search for UL Yellow Card	<ul style="list-style-type: none"><li>Lotte Chemical Corporation</li><li>Infino</li></ul>
Availability	<ul style="list-style-type: none"><li>Africa &amp; Middle East</li><li>Asia Pacific</li><li>Europe</li><li>Latin America</li><li>North America</li></ul>

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity			
Natural	1.20	1.20 g/cm <sup>3</sup>	ASTM D792
Natural	1.20 g/cm <sup>3</sup>	1.20 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	12 g/10 min	12 g/10 min	ASTM D1238 ISO 1133
Molding Shrinkage			
Flow : 0.126 in (3.20 mm)	5.0E-3 to 7.0E-3 in/in	0.50 to 0.70 %	ASTM D955
Across Flow : 0.126 in (3.20 mm)	5.0E-3 to 7.0E-3 in/in	0.50 to 0.70 %	ASTM D955
Across Flow : 0.0787 in (2.00 mm)	0.50 to 0.70 %	0.50 to 0.70 %	ISO 294-4
Flow : 0.0787 in (2.00 mm)	0.50 to 0.70 %	0.50 to 0.70 %	ISO 294-4
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus			
-- <sup>4</sup>	334000 psi	2300 MPa	ASTM D638
--	334000 psi	2300 MPa	ISO 527-2/50
Tensile Strength			
Yield <sup>4</sup>	9140 psi	63.0 MPa	ASTM D638
Yield	9280 psi	64.0 MPa	ISO 527-2/50
Break <sup>4</sup>	9140 psi	63.0 MPa	ASTM D638
Break	9280 psi	64.0 MPa	ISO 527-2/50
Tensile Elongation			
Break <sup>4</sup>	110 %	110 %	ASTM D638
Break	110 %	110 %	ISO 527-2/50
Flexural Modulus			
-- <sup>5</sup>	334000 psi	2300 MPa	ASTM D790
-- <sup>6</sup>	334000 psi	2300 MPa	ISO 178
Flexural Strength			
-- <sup>5</sup>	13100 psi	90.0 MPa	ASTM D790
-- <sup>6</sup>	13300 psi	92.0 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength <sup>7</sup> (73°F (23°C))	36 ft·lb/in <sup>2</sup>	75 kJ/m <sup>2</sup>	ISO 179/1eA
Notched Izod Impact			
73°F (23°C), 0.125 in (3.18 mm)	16 ft·lb/in	850 J/m	ASTM D256
73°F (23°C), 0.250 in (6.35 mm)	2.8 ft·lb/in	150 J/m	ASTM D256
73°F (23°C) <sup>7</sup>	38 ft·lb/in <sup>2</sup>	80 kJ/m <sup>2</sup>	ISO 180/1A
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	120	120	ASTM D785 ISO 2039-2



Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed, 0.252 in (6.40 mm)	279 °F	137 °C	ASTM D648
66 psi (0.45 MPa), Unannealed, 0.157 in (4.00 mm)	279 °F	137 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed, 0.252 in (6.40 mm)	261 °F	127 °C	ASTM D648
264 psi (1.8 MPa), Unannealed, 0.157 in (4.00 mm)	257 °F	125 °C	ISO 75-2/A
Vicat Softening Temperature	295 °F	146 °C	ISO 306/B50
RTI Elec			UL 746
0.06 in (1.6 mm)	266 °F	130 °C	
0.13 in (3.2 mm)	266 °F	130 °C	
RTI Imp			UL 746
0.06 in (1.6 mm)	257 °F	125 °C	
0.13 in (3.2 mm)	266 °F	130 °C	
RTI Str			UL 746
0.06 in (1.6 mm)	257 °F	125 °C	
0.13 in (3.2 mm)	266 °F	130 °C	

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94
0.06 to 0.13 in (1.6 to 3.2 mm)	V-2	V-2	

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature		
Desiccant Dryer	248 °F	120 °C
Hot Air Dryer	248 °F	120 °C
Drying Time		
Desiccant Dryer	4.0 hr	4.0 hr
Hot Air Dryer	4.0 hr	4.0 hr
Suggested Max Moisture	< 0.050 %	< 0.050 %
Rear Temperature	122 to 176 °F	50 to 80 °C
Middle Temperature	482 to 518 °F	250 to 270 °C
Front Temperature	518 to 572 °F	270 to 300 °C
Nozzle Temperature	572 °F	300 °C
Mold Temperature	176 to 248 °F	80 to 120 °C
Injection Pressure	925 psi	6.37 MPa
Back Pressure	213 psi	1.47 MPa
Screw Speed	120 to 130 rpm	120 to 130 rpm

**Injection Notes**  
Hot Runner Temperature: 290 to 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> 2.0 in/min (50 mm/min)
- <sup>5</sup> 0.11 in/min (2.8 mm/min)
- <sup>6</sup> 0.079 in/min (2.0 mm/min)
- <sup>7</sup> 4mm



## Where to Buy

### Supplier

**Lotte Chemical Corporation**  
Seoul, South Korea  
Telephone: +82-2-829-4114  
Web: <http://english.lottechem.com/>

### Distributor

**Advanced Plastics, Inc**  
Telephone: 847-550-5556  
Web: <http://www.apikolon.com/>  
Availability: Mexico, North America, South America

**Amco Polymers**  
Telephone: 800-262-6685  
Web: <http://www.amcopolymers.com/>  
Availability: North America

**Channel Prime Alliance**  
Telephone: 800-247-8038  
Web: <http://www.channelpa.com/>  
Availability: North America

**GAZECHIM PLASTIQUES**  
*GAZECHIM PLASTIQUES is a Pan European distribution company. Contact GAZECHIM PLASTIQUES for availability of individual products by country.*  
Telephone: +33-4-67-49-55-37  
Web: <http://www.gazechim.com/>  
Availability: Belgium, France, Netherlands, Romania, United Kingdom

**Osterman & Company**  
Telephone: 800-914-4437  
Web: <http://www.osterman-co.com/>  
Availability: North America

**RESINEX Group**  
*RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.*  
Telephone: +32-14-672511  
Web: <http://www.resinex.com/>  
Availability: Europe

**TER HELL Plastic GmbH**  
*TER HELL Plastic is a Pan European distribution company. Contact TER HELL Plastic for availability of individual products by country.*  
Telephone: +49-2366-5661-0  
Web: <https://www.terplastics.com/>  
Availability: Germany

**Tex-Co Resin Distribution, Inc.**  
Telephone: 877-908-3926  
Web: <http://www.texcoresin.com/>  
Availability: North America

**The Materials Group**  
Telephone: 616-863-6046  
Web: <http://thematerialsgroup.com/>  
Availability: North America

