

# Infino SC-1220UR

Polycarbonate

SAMSUNG SDI CO., LTD.

PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

Infino SC-1220UR is a Polycarbonate (PC) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: good uv resistance.

### General

Material Status	• Commercial: Active		
Literature <sup>1</sup>	• Processing (English) • Technical Datasheet - ASTM (English) • Technical Datasheet - ISO (English)		
UL Yellow Card <sup>2</sup>	• E115797-100059837		
Search for UL Yellow Card	• SAMSUNG SDI CO., LTD. • Infino		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good UV Resistance		

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.20 g/cm <sup>3</sup>	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

Mechanical	Nominal Value Unit	Test Method
Tensile Strength		
Yield <sup>4</sup>	63.0 MPa	ASTM D638
Yield	63.0 MPa	ISO 527-2/50
Flexural Modulus		
-- <sup>5</sup>	2300 MPa	ASTM D790
-- <sup>6</sup>	2260 MPa	ISO 178
Flexural Strength		
-- <sup>5</sup>	90.0 MPa	ASTM D790
-- <sup>6</sup>	90.0 MPa	ISO 178

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness		
R-Scale	120	ASTM D785
R-Scale	125	ISO 2039-2

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		ISO 75-2/A
1.8 MPa, Unannealed, 4.00 mm	125 °C	
Vicat Softening Temperature	140 °C	ISO 306/B50

Injection	Nominal Value Unit
Drying Temperature	
--	80.0 °C
Desiccant Dryer	80.0 °C
Drying Time	
--	4.0 to 6.0 hr
Desiccant Dryer	3.0 to 4.0 hr
Suggested Max Moisture	0.040 %
Rear Temperature	100 to 260 °C
Middle Temperature	270 °C
Front Temperature	270 to 280 °C



Injection	Nominal Value Unit
Nozzle Temperature	280 °C
Mold Temperature	80.0 to 110 °C
Injection Pressure	98.1 MPa
Back Pressure	0.981 to 1.96 MPa
Screw Speed	30 to 50 rpm

### 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> 5.0 mm/min

<sup>5</sup> 2.8 mm/min

<sup>6</sup> 2.0 mm/min



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## Where to Buy

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### Supplier

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**SAMSUNG SDI CO., LTD.**

Seoul, South Korea

Telephone: +82-2-527-2401

Web: <http://www.samsungstarex.com/>

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### Distributor

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**Channel Prime Alliance**

Telephone: 800-247-8038

Web: <http://www.channelpa.com/>

Availability: North America

**EnCom, Inc.**

Telephone: 866-481-7700

Web: <http://www.encompolymers.com/>

Availability: North America

**ESSE International - OMYA**

*ESSE International - OMYA is a Pan European distribution company. Contact ESSE International - OMYA for availability of individual products by country.*

Telephone: +33-1-30-80-56-56

Web: <http://www.omya.com>

Availability: Europe, Turkey

**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

**Polymer Technology & Services, LLC**

Telephone: 800-475-1701

Web: <http://www.ptslc.com/>

Availability: North America

**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

