

# HOPELEX PC-1220U

Polycarbonate

Lotte Chemical Corporation



ides.com/prospector

## Technical Data

### Product Description

Hopelex PC-1220U is a low viscosity, clear polycarbonate, which is suitable for outdoor injection applications. Hopelex PC-1220U have UV stabilized ingredients to prevent degradation of final PC products from lights.

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Technical Datasheet (English)</a>
Search for UL Yellow Card	• <a href="#">Lotte Chemical Corporation</a> • <a href="#">HOPELEX</a>
Availability	• Asia Pacific • Europe • North America
Additive	• UV Stabilizer
Features	• Low Viscosity
Uses	• Outdoor Applications
RoHS Compliance	• RoHS Compliant
Appearance	• Clear/Transparent
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.20 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	22 g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70 %	ASTM D955

Mechanical	Nominal Value Unit	Test Method
Tensile Strength <sup>3</sup> (Yield)	61.8 MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break)	> 100 %	ASTM D638
Flexural Modulus <sup>4</sup>	2350 MPa	ASTM D790
Flexural Strength <sup>4</sup> (Yield)	90.2 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	690 J/m	ASTM D256

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	139 °C	ASTM D648
1.8 MPa, Unannealed	128 °C	
Vicat Softening Temperature	150 °C	

Optical	Nominal Value Unit	Test Method
Refractive Index	1.585	ASTM D542
Transmittance	89.0 %	ASTM D1003
Haze	< 0.80 %	ASTM D1003

Injection	Nominal Value Unit
Drying Temperature	120 °C
Drying Time	4.0 hr
Suggested Max Moisture	0.020 %
Suggested Max Regrind	20 %
Hopper Temperature	60.0 to 80.0 °C
Rear Temperature	290 to 310 °C
Middle Temperature	280 to 300 °C
Front Temperature	270 to 290 °C
Nozzle Temperature	280 to 300 °C
Processing (Melt) Temp	290 to 310 °C
Mold Temperature	60.0 to 90.0 °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> Typical properties: these are not to be construed as specifications.

<sup>3</sup> 50 mm/min

<sup>4</sup> 10 mm/min

<sup>5</sup> Rate B (120°C/h), Loading 2 (50 N)

# HOPELEX PC-1220U

Polycarbonate

**Lotte Chemical Corporation**

---

## Where to Buy

---

### Supplier

**Lotte Chemical Corporation**

Seoul, South Korea

Telephone: 82-2-829-4114

Web: <http://english.lottechem.com/>

---

### Distributor

**EnCom, Inc.**

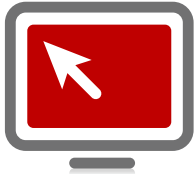
Telephone: 866-481-7700

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

Availability: North America



Founded in 1986 and based in Laramie, Wyoming, IDES is now part of the UL family of companies. UL is a premier global independent safety science company with more than a century of proven history. Employing nearly 10,000 professionals in over 100 countries, UL has five distinct business units -- Product Safety, Environment, Life & Health, Knowledge Services and Verification Services -- to meet the expanding needs of our customers and to deliver on our public safety mission.



### Prospector Plastics Database - [www.ides.com/prospector](http://www.ides.com/prospector)

Prospector is a searchable online database that includes 85,000 data sheets from 875 manufacturers and 44,000 UL yellow cards. Each data sheet includes property, processing and supplier contact information. Prospector is relied on by nearly 400,000 design engineers and plastics processors. Using Prospector, they save time with plastic material selection by quickly and easily referencing technical information critical to the success of their products.

*"Prospector is absolutely the best and most well-known search engine for plastic raw materials in the world. We use Prospector every day – it's a real time saver!"*

– Birgit Elvardt Bader, Production Manager, Micotron

#### Power Searches

**Property Search** – select plastics by 500 key properties and design parameters.

**Alternative Resins Search** – find replacement plastics within minutes.

**Automotive Plastics Search** – easily locate automotive approved plastics.

**Curve Data** – view, overlay and export curve data.



### Material Data Management – [www.ides.com/datasheets](http://www.ides.com/datasheets)

With our data management services, plastic suppliers and distributors can have custom search interfaces available on their website for their customers, website visitors, sales and customer service teams. These provide intuitive ways to find and view technical data sheets for their products.

*"With UL IDES data services, our website now displays the most current information on the products we distribute and links to our backend RFQ and sales order system, adding both value and service for our customers."*

– Kevin Chase, Owner & President, Chase Plastics



### Advertising – [www.ides.com/advertise](http://www.ides.com/advertise)

Reach 365,000 pre-qualified plastics professionals and generate leads with proven techniques. Electronic newsletter insertions, sponsored webinars and powerful online ads are available to make the most of your lead-generation program.



For more information, call: 800.788.4668 or 307.742.9227 ext. 220