

# Lupox® GP1000H

Polybutylene Terephthalate

LG Chem Ltd.

# PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

High Flow, Good Impact

Application  
Automotive(Connector)

Material Type  
PBT

### General

Material Status	• Commercial: Active
UL Yellow Card <sup>1</sup>	• E248280-533890 • E353371-103960934 • E515076-104348493 • E67171-248566
Search for UL Yellow Card	• LG Chem Ltd. • Lupox®
Availability	• Asia Pacific • Europe • Latin America • North America
Features	• Good Impact Resistance • High Flow
Uses	• Automotive Electronics

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.29 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	46 g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	1.2 to 2.0 %	ASTM D955
Water Absorption (24 hr, 23°C, 50% RH)	0.080 %	ASTM D570

Mechanical	Nominal Value Unit	Test Method
Tensile Strength <sup>3</sup> (Break, 3.20 mm)	47.1 MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break, 3.20 mm)	> 100 %	ASTM D638
Flexural Modulus <sup>4</sup> (3.20 mm)	2060 MPa	ASTM D790
Flexural Strength <sup>4</sup> (3.20 mm)	73.5 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm)	49 J/m	ASTM D256

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed, 6.40 mm	58.0 °C	ASTM D648
Ball Pressure Test (125°C)	Pass	IEC 60695-10-2
Peak Melting Temperature	223 °C	ASTM D3418
RTI Elec	140 °C	UL 746B
RTI Imp	130 °C	UL 746B
RTI Str	140 °C	UL 746B

Electrical	Nominal Value Unit	Test Method
Volume Resistivity (23°C)	1.0E+19 ohms·cm	ASTM D257
Dielectric Strength (23°C, 1.00 mm)	23 kV/mm	ASTM D149
Arc Resistance	PLC 5	ASTM D495

Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
0.71 mm	HB	
1.5 mm	HB	
3.3 mm	HB	



Injection	Nominal Value Unit
Drying Temperature	90 to 110 °C
Drying Time	4.0 to 6.0 hr
Suggested Max Moisture	0.020 %
Rear Temperature	230 to 250 °C
Middle Temperature	230 to 250 °C
Front Temperature	230 to 250 °C
Nozzle Temperature	240 to 260 °C
Processing (Melt) Temp	223 °C
Mold Temperature	60 to 100 °C

### Notes

<sup>1</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>2</sup> Typical properties: these are not to be construed as specifications.

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

<sup>4</sup> 2.5 mm/min



## Where to Buy

### Supplier

#### **LG Chem Ltd.**

Englewood Cliffs, Englewood Cliffs USA  
**Telephone:** 201-816-2302  
**Web:** <http://www.chemwide.com/>

### Distributor

#### **Chase Plastic Services, Inc.**

*Chase Plastics Services is a North American distributor with representatives throughout the region. Please find your rep here: <http://www.chaseplastics.com/contact/locations>*  
**Telephone:** 800-232-4273  
**Web:** <http://www.chaseplastics.com/>  
**Availability:** North America

#### **Conventus Polymers**

**Telephone:** 973-343-7669  
**Web:** <http://www.conventuspolymers.com/>  
**Availability:** North America

#### **Distrupol Ltd**

*Distrupol Ltd is a Pan European distribution company. Contact Distrupol Ltd for availability of individual products by country.*  
**Telephone:** 08452003040  
**Web:** <http://www.distrupol.com/>  
**Availability:** Belgium, Denmark, Finland, Luxembourg, Netherlands, Norway, Sweden

#### **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:** France, Italy

#### **Resin Resource, Inc.**

**Telephone:** 877-652-3431  
**Web:** <http://www.resinresourceinc.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

#### **SNETOR Distribution**

*SNETOR Distribution is a Pan European distribution company. Contact SNETOR for availability of individual products by country.*  
**Telephone:** +33-1-4904-8888  
**Web:** <http://www.snetor.com/>  
**Availability:** France

