

Lupox® GP2306F

Polybutylene Terephthalate

LG Chem Ltd.

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

General Purpose

Application

Automotive Parts, Electrical & Electronic Parts, IT/OA

Material Type

PBT+GF30%

General

Material Status	• Commercial: Active
UL Yellow Card ¹	• E302314-530022 • E67171-248574 • E353371-101107257 • E515076-104530174 • E248280-104534087
Search for UL Yellow Card	• LG Chem Ltd. • Lupox®
Availability	• Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Uses	• Automotive Applications • Electrical/Electronic Applications • General Purpose
Multi-Point Data	• Isothermal Stress vs. Strain (ISO 11403) • Secant Modulus vs. Strain (ISO 11403) • Specific Heat vs. Temperature (ISO 11403) • Viscosity vs. Shear Rate (ISO 11403)

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.62 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	10 g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.30 to 1.0 %	ASTM D955
Water Absorption (24 hr, 23°C, 50% RH)	0.070 %	ASTM D570
Mechanical	Nominal Value Unit	Test Method
Tensile Strength ³ (Break, 3.20 mm)	132 MPa	ASTM D638
Tensile Elongation ³ (Break, 3.20 mm)	2.0 %	ASTM D638
Flexural Modulus ⁴ (3.20 mm)	8830 MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	191 MPa	ASTM D790
Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm)	69 J/m	ASTM D256
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed, 6.40 mm	210 °C	ASTM D648
Peak Melting Temperature	223 °C	ASTM D3418
RTI Elec	140 °C	UL 746B
RTI Imp	140 °C	UL 746B
RTI Str	140 °C	UL 746B
Electrical	Nominal Value Unit	Test Method
Volume Resistivity (23°C)	1.0E+17 ohms·cm	ASTM D257
Dielectric Strength (23°C, 1.00 mm)	28 kV/mm	ASTM D149
Arc Resistance	PLC 6	ASTM D495



Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
0.71 mm	V-0	
1.5 mm	V-0	
3.3 mm	V-0	

Injection	Nominal Value Unit
Drying Temperature	100 to 120 °C
Drying Time	4.0 to 6.0 hr
Suggested Max Moisture	0.020 %
Rear Temperature	240 to 250 °C
Middle Temperature	240 to 250 °C
Front Temperature	240 to 250 °C
Nozzle Temperature	240 to 260 °C
Processing (Melt) Temp	223 °C
Mold Temperature	60 to 100 °C

Notes

¹ 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.

² Typical properties: these are not to be construed as specifications.

³ 5.0 mm/min

⁴ 1.3 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

Entec Polymers Latin America

Contact Entec Polymers for availability of individual products by country.
Web: <https://www.entecpolymers.com/>
Availability: Latin America

GAZECHIM PLASTICS FRANCE & ITALY

Telephone: +33-4-67-49-55-37
Web: <http://www.gazechim.com/>
Availability: France

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

SNETOR is a Pan European distribution company. Contact SNETOR for availability of individual products by country.
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Availability: France, Italy

