

Technical Data

Product Description

General Purpose

Application

Automotive Parts, Electrical & Electronic Parts, IT/OA

Material Type

PC/ABS+GF10%

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight		
Uses	• Automotive Applications	• Electrical/Electronic Applications	• General Purpose

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.20 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)		
250°C/2.16 kg	4.0 g/10 min	ASTM D1238
260°C/5.0 kg	16 g/10 min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.30 to 0.40 %	ASTM D955 ISO 294-4

Mechanical	Nominal Value Unit	Test Method
Tensile Strength		
Yield ²	88.3 MPa	ASTM D638
Yield	80.0 MPa	ISO 527-2/5
Tensile Elongation		
Break ²	3.0 %	ASTM D638
Break	4.2 %	ISO 527-2/5
Flexural Modulus		
3.20 mm ³	4810 MPa	ASTM D790
-- ⁴	4200 MPa	ISO 178
Flexural Strength		
3.20 mm ³	137 MPa	ASTM D790
-- ⁴	135 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	9.0 kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (-30°C)	50 kJ/m ²	ISO 179
Notched Izod Impact (23°C, 3.20 mm)	98 J/m	ASTM D256

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
1.8 MPa, Unannealed, 6.40 mm	125 °C	ASTM D648
1.8 MPa, Unannealed	114 °C	ISO 75-2/Af
Vicat Softening Temperature	127 °C	ISO 306/B50

Injection	Nominal Value Unit
Drying Temperature	85 to 95 °C
Drying Time	3.0 to 5.0 hr
Suggested Max Moisture	0.020 %
Rear Temperature	220 to 240 °C
Middle Temperature	235 to 255 °C



Lupoy® GP5100

Polycarbonate + ABS

LG Chem Ltd.

PROSPECTOR®

www.ulprospector.com

Injection	Nominal Value Unit
Front Temperature	250 to 265 °C
Nozzle Temperature	250 to 265 °C
Processing (Melt) Temp	235 to 265 °C
Mold Temperature	50 to 80 °C
Screw Speed	40 to 70 rpm

Notes

¹ Typical properties: these are not to be construed as specifications.

² 5.0 mm/min

³ 1.3 mm/min

⁴ 2.0 mm/min



Where to Buy

Supplier**LG Chem Ltd.**

Englewood Cliffs, Englewood Cliffs USA

Telephone: 201-816-2302

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

Distributor**Channel Prime Alliance**

Telephone: 800-247-8038

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

Availability: North America

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

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.*

Telephone: +33-1-4904-8888

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

Availability: France, Italy

