

# Lumid® GP2200A(W)

Polyamide 6  
LG Chem Ltd.

# PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

General Purpose

Application  
HMID, SLMP B, Holder

Material Type  
PA6-GF20

### General

Material Status	<ul style="list-style-type: none"><li>Commercial: Active</li></ul>
UL Yellow Card <sup>1</sup>	<ul style="list-style-type: none"><li>E67171-248534</li><li>E302314-530072</li><li>E353371-103960863</li><li>E515076-104348479</li></ul>
Search for UL Yellow Card	<ul style="list-style-type: none"><li>LG Chem Ltd.</li><li>Lumid®</li></ul>
Availability	<ul style="list-style-type: none"><li>Asia Pacific</li><li>Europe</li><li>Latin America</li><li>North America</li></ul>
Filler / Reinforcement	<ul style="list-style-type: none"><li>Glass Fiber, 20% Filler by Weight</li></ul>
Uses	<ul style="list-style-type: none"><li>General Purpose</li></ul>

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.30 g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.60 to 1.0 %	ASTM D955
Water Absorption (24 hr, 23°C, 50% RH)	1.2 %	ASTM D570

Mechanical	Nominal Value Unit	Test Method
Tensile Strength <sup>3</sup> (Yield, 3.20 mm)	147 MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break, 3.20 mm)	4.0 %	ASTM D638
Flexural Modulus <sup>4</sup>	6670 MPa	ASTM D790
Flexural Strength <sup>4</sup>	216 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C, 6.40 mm)	88 J/m	ASTM D256

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	121	ASTM D785

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	205 °C	ASTM D648
Peak Melting Temperature	220 °C	ASTM D3418
CLTE - Flow	4.5E-5 cm/cm/°C	ASTM D696

Electrical	Nominal Value Unit	Test Method
Volume Resistivity (23°C)	1.0E+17 ohms·cm	ASTM D257
Dielectric Strength (23°C, 1.00 mm)	20 kV/mm	ASTM D149
Dielectric Constant (23°C, 1.00 GHz)	3.80	ASTM D150

Flammability	Nominal Value Unit	Test Method
Flame Rating (0.75 mm)	HB	UL 94

Injection	Nominal Value Unit
Drying Temperature	80 to 100 °C
Drying Time	4.0 to 5.0 hr
Suggested Max Moisture	0.12 %
Rear Temperature	235 to 255 °C
Middle Temperature	240 to 270 °C



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Injection	Nominal Value Unit
Front Temperature	240 to 270 °C
Nozzle Temperature	250 to 280 °C
Processing (Melt) Temp	250 to 280 °C
Mold Temperature	80 to 100 °C
Screw Speed	60 to 150 rpm

## 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> 5.0 mm/min

<sup>4</sup> 3.0 mm/min



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### Where to Buy

#### Supplier

##### LG Chem Ltd.

Englewood Cliffs, NJ 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>*

*[www.chaseplastics.com/contact/locations](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

##### Resin Resource, Inc.

Telephone: 877-652-3431

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

Availability: North America

