

Lumid® HI2152A(W)

Polyamide 6
LG Chem Ltd.

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

High Impact

Application
Automotive Parts, Electrical & Electronic Parts

Material Type
PA6-GF15

General

Material Status	• Commercial: Active
Search for UL Yellow Card	• LG Chem Ltd. • Lumid®
Availability	• Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
Features	• High Impact Resistance
Uses	• Automotive Applications • Electrical/Electronic Applications

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.21 g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.50 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 ² (Break, 3.20 mm)	88.3 MPa	ASTM D638
Tensile Elongation ³ (Break, 3.20 mm)	4.5 %	ASTM D638
Flexural Modulus ⁴ (6.40 mm)	4120 MPa	ASTM D790
Flexural Strength ⁴ (6.40 mm)	137 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact		ASTM D256
-30°C, 6.40 mm	39 J/m	
23°C, 6.40 mm	98 J/m	

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	115	ASTM D785

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed	200 °C	ASTM D648
Peak Melting Temperature	220 °C	ASTM D3418
CLTE - Flow	3.6E-5 cm/cm/°C	ASTM D696

Electrical	Nominal Value Unit	Test Method
Volume Resistivity (23°C)	1.0E+16 ohms·cm	ASTM D257
Dielectric Strength (23°C, 1.00 mm)	21 kV/mm	ASTM D149
Dielectric Constant (23°C, 1.00 GHz)	3.50	ASTM D150

Injection	Nominal Value Unit
Drying Temperature	80 to 100 °C
Drying Time	4.0 to 5.0 hr
Suggested Max Moisture	0.10 %
Rear Temperature	250 to 270 °C
Middle Temperature	270 to 285 °C
Front Temperature	270 to 290 °C
Nozzle Temperature	270 to 295 °C



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Injection	Nominal Value Unit
Processing (Melt) Temp	260 to 280 °C
Mold Temperature	80 to 100 °C
Screw Speed	60 to 200 rpm

Notes

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

² 50 mm/min

³ 5.0 mm/min

⁴ 2.8 mm/min



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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>

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

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

