

Technical Data

Product Description

General purpose

Application

Automotive Parts, Electrical & Electronic Parts

Material Type

PC/ABS

General

Material Status • Commercial: Active

Search for UL Yellow Card • LG Chem Ltd.
• Lupoy®

Availability • Asia Pacific • Latin America
• Europe • North America

Uses • Automotive Applications • Electrical/Electronic Applications • General Purpose

Physical

	Nominal Value Unit	Test Method
Density	1.13 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)		
250°C/2.16 kg	4.0 g/10 min	ASTM D1238
260°C/5.0 kg	17 g/10 min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.80 %	ASTM D955 Internal Method

Mechanical

	Nominal Value Unit	Test Method
Tensile Strength		
Yield ²	53.0 MPa	ASTM D638
Yield	51.0 MPa	ISO 527-2/50
Tensile Elongation		
Break ²	110 %	ASTM D638
Break	110 %	ISO 527-2/50
Flexural Modulus		
3.20 mm ³	2210 MPa	ASTM D790
-- ⁴	2200 MPa	ISO 178
Flexural Strength		
3.20 mm ³	83.4 MPa	ASTM D790
-- ⁴	80.0 MPa	ISO 178

Impact

	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179
-30°C	38 kJ/m ²	
23°C	52 kJ/m ²	
Notched Izod Impact		ASTM D256
-30°C, 3.20 mm	390 J/m	
23°C, 3.20 mm	590 J/m	

Hardness

	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	113	ASTM D785

Thermal

	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed, 6.40 mm	123 °C	ASTM D648
1.8 MPa, Unannealed, 6.40 mm	108 °C	ASTM D648
1.8 MPa, Unannealed	102 °C	ISO 75-2/ Af
Vicat Softening Temperature	122 °C	ISO 306/B50



Lupoy® HR5006A

Polycarbonate + ABS

LG Chem Ltd.

PROSPECTOR®

www.ulprospector.com

Injection	Nominal Value Unit
Drying Temperature	80 to 100 °C
Drying Time	4.0 to 6.0 hr
Suggested Max Moisture	0.020 %
Rear Temperature	240 to 270 °C
Middle Temperature	245 to 275 °C
Front Temperature	245 to 275 °C
Nozzle Temperature	245 to 275 °C
Processing (Melt) Temp	240 to 270 °C
Mold Temperature	50 to 70 °C
Screw Speed	40 to 70 rpm

Notes

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

² 50 mm/min

³ 10 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**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:** 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