

Technical Data

Product Description

Heat Resistance

Application

Automotive Bezel, Rear Combi Lamp

Material Type

PC/ABS

General

Material Status	• Commercial: Active
UL Yellow Card ¹	• E515076-104348508
Search for UL Yellow Card	• LG Chem Ltd. • Lupoy®
Availability	• Asia Pacific • Europe • Latin America • North America
Features	• Good Heat Resistance
Uses	• Automotive Applications

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.15 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)		
250°C/2.16 kg	5.3 g/10 min	ASTM D1238
260°C/5.0 kg	21 g/10 min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.80 %	ASTM D955 ISO 294-4
Mechanical	Nominal Value Unit	Test Method
Tensile Strength		
Yield ³	54.9 MPa	ASTM D638
Yield	55.0 MPa	ISO 527-2/50
Tensile Elongation		
Break ³	> 100 %	ASTM D638
Break	100 %	ISO 527-2/50
Flexural Modulus		
3.20 mm ⁴	2260 MPa	ASTM D790
-- ⁵	2400 MPa	ISO 178
Flexural Strength		
3.20 mm ⁴	86.3 MPa	ASTM D790
-- ⁵	90.0 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Notched Izod Impact		
-30°C, 3.20 mm	230 J/m	ASTM D256
23°C, 3.20 mm	510 J/m	ASTM D256
-30°C	20 kJ/m ²	ISO 180
23°C	45 kJ/m ²	ISO 180
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed, 6.40 mm	128 °C	ASTM D648
1.8 MPa, Unannealed, 6.40 mm	114 °C	ASTM D648
1.8 MPa, Unannealed	105 °C	ISO 75-2/Af
Vicat Softening Temperature	130 °C	ISO 306/B50



Lupoy® HR5007AT

Polycarbonate + ABS

LG Chem Ltd.

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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 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 50 mm/min

⁴ 10 mm/min

⁵ 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**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