

Technical Data

Product Description

Description
General Purpose

Application
Automotive (Head Lamp Bezel)

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
UL Yellow Card ²	• E67171-248566 • E353371-103960934
Search for UL Yellow Card	• LG Chem Ltd. • Lupox®
Availability	• Asia Pacific • Europe • Latin America • North America
Features	• General Purpose
Uses	• Automotive Applications • General Purpose
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.31	1.31 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	37 g/10 min	37 g/10 min	ASTM D1238
Molding Shrinkage - Flow			ASTM D955
73°F (23°C), 0.0787 in (2.00 mm), Injection Molded	0.018 to 0.020 in/in	1.8 to 2.0 %	
73°F (23°C), 0.118 in (3.00 mm), Injection Molded	0.019 to 0.021 in/in	1.9 to 2.1 %	

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ⁴			ASTM D638
Yield, 73°F (23°C), 0.126 in (3.20 mm), Injection Molded	12200 psi	84.1 MPa	
Tensile Elongation ⁴			ASTM D638
Break, 73°F (23°C), 0.126 in (3.20 mm), Injection Molded	> 100 %	> 100 %	
Flexural Modulus ⁵			ASTM D790
73°F (23°C), 0.252 in (6.40 mm), Injection Molded	370000 psi	2550 MPa	
Flexural Strength ⁵			ASTM D790
73°F (23°C), 0.252 in (6.40 mm), Injection Molded	12500 psi	86.3 MPa	

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.252 in (6.40 mm), Injection Molded	0.62 ft·lb/in	33 J/m	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, 0.252 in (6.40 mm), Injection Molded	347 °F	175 °C	
264 psi (1.8 MPa), Unannealed, 0.252 in (6.40 mm), Injection Molded	142 °F	61.0 °C	
Peak Melting Temperature	433 °F	223 °C	ASTM D3418
RTI Elec	284 °F	140 °C	UL 746
RTI Imp	266 °F	130 °C	UL 746
RTI Str	284 °F	140 °C	UL 746



Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Volume Resistivity (73°F (23°C))	1.0E+17 ohms·cm	1.0E+17 ohms·cm	ASTM D257
Dielectric Strength			ASTM D149
73°F (23°C), 0.0394 in (1.00 mm)	580 V/mil	23 kV/mm	
Arc Resistance	PLC 5	PLC 5	ASTM D495
Comparative Tracking Index (CTI)	PLC 0	PLC 0	UL 746
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94
0.028 in (0.71 mm)	HB	HB	
0.06 in (1.5 mm)	HB	HB	
0.13 in (3.3 mm)	HB	HB	
Injection	Nominal Value (English)	Nominal Value (SI)	
Drying Temperature	248 °F	120 °C	
Drying Time	5.0 hr	5.0 hr	
Suggested Max Moisture	0.020 %	0.020 %	
Rear Temperature	464 to 482 °F	240 to 250 °C	
Middle Temperature	473 to 491 °F	245 to 255 °C	
Front Temperature	473 to 491 °F	245 to 255 °C	
Nozzle Temperature	482 to 500 °F	250 to 260 °C	
Processing (Melt) Temp	473 to 500 °F	245 to 260 °C	
Mold Temperature	86 to 122 °F	30 to 50 °C	
Back Pressure	4270 psi	29.4 MPa	
Screw Speed	60 rpm	60 rpm	

Notes

- ¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.
- ² 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.
- ³ Typical properties: these are not to be construed as specifications.
- ⁴ 2.0 in/min (50 mm/min)
- ⁵ 0.20 in/min (5.0 mm/min)



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>***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:** France, 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