

## Technical Data

### Product Description

General Purpose

Application

Automotive Parts, Electrical & Electronic Parts, IT/OA

Material Type

PC

### General

Material Status	• Commercial: Active		
UL Yellow Card <sup>1</sup>	• E302314-530025		
Search for UL Yellow Card	• LG Chem Ltd. • Lupoy®		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Uses	• Automotive Applications	• Electrical/Electronic Applications	• General Purpose

Physical	Nominal Value Unit	Test Method
Density	1.20 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	23 g/10 min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.80 %	ISO 294-4

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	2100 MPa	ISO 527-1/1
Tensile Stress (Yield)	60.0 MPa	ISO 527-2/50
Tensile Strain (Break)	120 %	ISO 527-2/50
Flexural Modulus <sup>3</sup>	2100 MPa	ISO 178
Flexural Stress <sup>3</sup>	90.0 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179
-30°C <sup>4</sup>	10 kJ/m <sup>2</sup>	
-30°C <sup>5</sup>	9.0 kJ/m <sup>2</sup>	
23°C <sup>4</sup>	60 kJ/m <sup>2</sup>	
23°C <sup>5</sup>	11 kJ/m <sup>2</sup>	

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed	136 °C	ISO 75-2/Bf
1.8 MPa, Unannealed	122 °C	ISO 75-2/Af
Vicat Softening Temperature	141 °C	ISO 306/B50
RTI Elec	130 °C	UL 746B
RTI Imp	130 °C	UL 746B
RTI Str	130 °C	UL 746B

Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
1.5 mm	HB	
3.0 mm	HB	

Injection	Nominal Value Unit
Drying Temperature	90 to 100 °C
Drying Time	3.0 to 4.0 hr
Suggested Max Moisture	0.020 %
Rear Temperature	240 to 270 °C



Injection	Nominal Value Unit
Middle Temperature	250 to 280 °C
Front Temperature	250 to 280 °C
Nozzle Temperature	250 to 280 °C
Processing (Melt) Temp	250 to 280 °C
Mold Temperature	80 to 100 °C
Screw Speed	40 to 80 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> 2.0 mm/min

<sup>4</sup> @3mm Notched

<sup>5</sup> @4mm Notched



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**Where to Buy**

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**Supplier****LG Chem Ltd.**

Englewood Cliffs, Englewood Cliffs USA

**Telephone:** 201-816-2302**Web:** <http://www.chemwide.com/>

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**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**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***SNETOR 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, Italy