

Technical Data

Product Description

Flame Retardant

Application

Automotive Parts, Electrical & Electronic Parts, IT/OA

Material Type

PC

General

Material Status	<ul style="list-style-type: none"> Commercial: Active
UL Yellow Card ¹	<ul style="list-style-type: none"> E248280-104273580 E353371-101107328 E248280-104273579 E515076-104530175 E515076-104530176 E67171-248609 E67171-301077
Search for UL Yellow Card	<ul style="list-style-type: none"> LG Chem Ltd. Lupoy®
Availability	<ul style="list-style-type: none"> Asia Pacific Europe Latin America North America
Features	<ul style="list-style-type: none"> Flame Retardant
Uses	<ul style="list-style-type: none"> Automotive Applications Electrical/Electronic Applications

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.21 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	11 g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.70 %	ASTM D955
Mechanical	Nominal Value Unit	Test Method
Tensile Strength ³ (Yield)	61.8 MPa	ASTM D638
Tensile Elongation ³ (Break)	100 %	ASTM D638
Flexural Modulus ⁴ (3.20 mm)	2260 MPa	ASTM D790
Flexural Strength ⁴ (3.20 mm)	98.1 MPa	ASTM D790
Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C, 3.20 mm)	780 J/m	ASTM D256
Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	118	ASTM D785
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed, 6.40 mm	130 °C	ASTM D648
Vicat Softening Temperature	141 °C	ASTM D1525 ⁵
RTI Elec	120 °C	UL 746B
RTI Imp	110 °C	UL 746B
RTI Str	120 °C	UL 746B
Electrical	Nominal Value Unit	Test Method
Comparative Tracking Index (Solution A)	250 V	IEC 60112



Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
1.0 mm	V-0	
1.5 mm	V-0	
2.5 mm	V-0	
	•	
	•	
3.0 mm	V-0	
	•	
	•	
	5VA	
	5VA	

Injection	Nominal Value Unit
Drying Temperature	100 to 120 °C
Drying Time	3.0 to 5.0 hr
Suggested Max Moisture	0.020 %
Rear Temperature	260 to 280 °C
Middle Temperature	280 to 300 °C
Front Temperature	300 to 320 °C
Nozzle Temperature	300 to 320 °C
Processing (Melt) Temp	300 to 320 °C
Mold Temperature	80 to 120 °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 Rate A (50°C/h), Loading 2 (50 N)



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