



شماره تماس:
۰۹۱۰ ۳۳۰ ۴ ۹۹۰

- واردات و فروش انواع دستگاه تزریق پلاستیک
- فروش انواع مواد اولیه پلیمر وارداتی و داخلی
- فروش انواع گرانول، مسترچ و کامپاندهای تخصصی



Lucel® N109LD

Acetal (POM) Copolymer
LG Chem Ltd.

PROSPECTOR®

www.ulprospector.com

Technical Data

Product Description

Chemical Resistance

Application

Copier, Watch, Clock, VCR, Printer Parts, etc.

General

| | |
|-----------------------------|--|
| Material Status | • Commercial: Active |
| Literature ¹ | • Technical Datasheet (English) |
| UL Yellow Card ² | • E67171-248302 • E67171-248303 |
| Search for UL Yellow Card | • LG Chem Ltd. • Lucel® |
| Availability | • Asia Pacific • Europe • Latin America • North America |
| Features | • Chemical Resistant |
| Uses | • Business Equipment • Electrical/Electronic Applications • Printer Parts |
| Automotive Specifications | • CHRYSLER MS-DB-100 CPN4540 Color: Non-matched Color • GM EDS-M-5201-11 • GM GMP.POM.005 • GM GMW22P-POM-C2 • IMDS ID 5584859 |
| Processing Method | • Injection Molding |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|-------------------------|------------------------|-------------|
| Density / Specific Gravity | 1.41 | 1.41 g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 9.0 g/10 min | 9.0 g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow (0.126 in (3.20 mm)) | 0.018 to 0.021 in/in | 1.8 to 2.1 % | ASTM D955 |
| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Tensile Strength ⁴ (Yield, 0.126 in (3.20 mm)) | 8820 psi | 60.8 MPa | ASTM D638 |
| Tensile Elongation ⁴ | | | ASTM D638 |
| Break, 0.126 in (3.20 mm) | 65 % | 65 % | |
| Flexural Modulus ⁵ (0.252 in (6.40 mm)) | 370000 psi | 2550 MPa | ASTM D790 |
| Flexural Strength ⁵ (0.126 in (3.20 mm)) | 12900 psi | 89.2 MPa | ASTM D790 |
| Impact | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Notched Izod Impact | | | ASTM D256 |
| 73°F (23°C), 0.252 in (6.40 mm) | 1.3 ft-lb/in | 69 J/m | |
| Hardness | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Rockwell Hardness (R-Scale) | 82 | 82 | ASTM D785 |
| 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) | 320 °F | 160 °C | |
| 264 psi (1.8 MPa), Unannealed, 0.252 in (6.40 mm) | 230 °F | 110 °C | |
| Electrical | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Surface Resistivity | 1.0E+16 ohms | 1.0E+16 ohms | ASTM D257 |
| Volume Resistivity (73°F (23°C)) | 1.0E+14 ohms·cm | 1.0E+14 ohms·cm | ASTM D257 |
| Dielectric Strength | | | ASTM D149 |
| 73°F (23°C), 0.0394 in (1.00 mm) | 610 V/mil | 24 kV/mm | |
| Dissipation Factor (1 MHz) | 3.8E-4 | 3.8E-4 | ASTM D150 |





شماره تماس:
۰۹۱۰ ۳۳۰ ۴ ۹۹۰

- واردات و فروش انواع دستگاه تزریق پلاستیک
- فروش انواع مواد اولیه پلیمر وارداتی و داخلی
- فروش انواع گرانبول، مسترچ و کامپاندهای تخصصی



Lucel® N109LD

Acetal (POM) Copolymer
LG Chem Ltd.

PROSPECTOR®

www.ulprospector.com

| 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 | |
| 0.10 in (2.5 mm) | HB | HB | |
| 0.12 in (3.0 mm) | HB | HB | |

| Injection | Nominal Value (English) | Nominal Value (SI) |
|--------------------------|-------------------------|--------------------|
| Drying Temperature | 194 to 230 °F | 90 to 110 °C |
| Drying Time | 3.0 to 6.0 hr | 3.0 to 6.0 hr |
| Minimum Moisture Content | 0.10 % | 0.10 % |
| Rear Temperature | 320 to 356 °F | 160 to 180 °C |
| Middle Temperature | 356 to 392 °F | 180 to 200 °C |
| Front Temperature | 374 to 392 °F | 190 to 200 °C |
| Nozzle Temperature | 374 to 392 °F | 190 to 200 °C |
| Mold Temperature | 140 to 176 °F | 60 to 80 °C |
| Back Pressure | 57.2 to 114 psi | 0.394 to 0.789 MPa |
| Screw Speed | 50 to 100 rpm | 50 to 100 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 0.39 in/min (10 mm/min)
- ⁵ 0.11 in/min (2.8 mm/min)





partplast.com

شماره تماس:
۰۹۱۰ ۳۳۰ ۴ ۹۹۰

- واردات و فروش انواع دستگاه تزریق پلاستیک
- فروش انواع مواد اولیه پلیمر وارداتی و داخلی
- فروش انواع گرانول، مستریج و کامپاندهای تخصصی



Lucel® N109LD

Acetal (POM) Copolymer
LG Chem Ltd.

PROSPECTOR®

www.ulprospector.com

Where to Buy

Supplier

LG Chem Ltd.

Englewood Cliffs, NJ USA
Telephone: 201-816-2302
Web: <http://www.chemwide.com/>

Distributor

ALBIS Plastic

ALBIS Plastic is a global distribution and compounding company. Contact ALBIS Plastic for availability of individual products per country.
Telephone: +49-40-78105-0
Web: <http://www.albis.com/>
Availability: Turkey

Resin Resource, Inc.

Telephone: 877-652-3431
Web: <http://www.resinresourceinc.com/>
Availability: North America

Southland Polymers

Southland Polymers - Full Service Engineering and Commodity Resin Distribution Since 1979
Telephone: 562-921-0444
Web: <http://www.southlandpolymers.com/>
Availability: Central America, North America, South America

یارت پلاست
PART PLAST

