

LG ASA LI912

Acrylonitrile Styrene Acrylate

LG Chem Ltd.

PROSPECTOR[®]

www.ulprospector.com

Technical Data

Product Description

Description

- Good Weatherability, General Purpose

Application

- Mail Box, Sprinkler, Sash Joiner, Toy, Satellite Antenna Cover

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
UL Yellow Card ²	• E67171-248322
Search for UL Yellow Card	• LG Chem Ltd.
Availability	• Asia Pacific • Europe • Latin America • North America
Features	• General Purpose • Weather Resistant
Uses	• Outdoor Applications • Toys
Processing Method	• Injection Molding
Multi-Point Data	• Specific Heat vs. Temperature (ISO 11403-2)

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity ⁴	1.07 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	12 g/10 min	ASTM D1238
Molding Shrinkage - Flow 23°C, 3.20 mm, Injection Molded	0.40 to 0.70 %	ASTM D955

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus ⁵ 23°C, 3.20 mm, Injection Molded	2160 MPa	ASTM D638
Tensile Strength ⁵ Yield, 23°C, 3.20 mm, Injection Molded	49.0 MPa	ASTM D638
Tensile Elongation ⁵ Break, 23°C, 3.20 mm, Injection Molded	25 %	ASTM D638
Flexural Modulus ⁶ 23°C, 3.20 mm, Injection Molded	2300 MPa	ASTM D790
Flexural Strength ⁶ 23°C, 3.20 mm, Injection Molded	79.0 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact -30°C, 3.20 mm, Injection Molded -30°C, 6.40 mm, Injection Molded 23°C, 3.20 mm, Injection Molded 23°C, 6.40 mm, Injection Molded	40 J/m 40 J/m 180 J/m 160 J/m	ASTM D256

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness R-Scale, 23°C, Injection Molded	103	ASTM D785

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load ⁷ 1.8 MPa, Unannealed, 6.40 mm, Injection Molded	86.0 °C	ASTM D648
Vicat Softening Temperature	95.0 °C	ASTM D1525 ⁸
RTI Elec	50.0 °C	UL 746
RTI Imp	50.0 °C	UL 746
RTI Str	50.0 °C	UL 746



LG ASA LI912

Acrylonitrile Styrene Acrylate

LG Chem Ltd.

PROSPECTOR®

www.ulprospector.com

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

Injection	Nominal Value Unit
Drying Temperature	80 to 90 °C
Drying Time	2.0 to 3.0 hr
Rear Temperature	180 to 200 °C
Middle Temperature	190 to 210 °C
Front Temperature	210 to 220 °C
Nozzle Temperature	210 to 220 °C
Processing (Melt) Temp	200 to 230 °C
Mold Temperature	40 to 80 °C
Back Pressure	0.490 to 0.981 MPa
Screw Speed	50 to 100 rpm

Injection Notes

Minimum Moisture Content: 0.01%

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 23°C

⁵ 50 mm/min

⁶ 15 mm/min

⁷ Edgewise

⁸ Rate A (50°C/h), Loading 2 (50 N)



LG ASA LI912

Acrylonitrile Styrene Acrylate

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**Amco Polymers****Telephone:** 800-262-6685**Web:** <http://www.amcopolymers.com/>**Availability:** North America**Biesterfeld***Biesterfeld is a Pan European distribution company. Contact Biesterfeld for availability of individual products by country.***Telephone:** +49-40-32008-0**Web:** <http://www.biesterfeld-plastic.com/>**Availability:** Algeria, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Egypt, France, Germany, Greece, Hungary, Ireland, Italy, Libyan Arab Jamahiriya, Luxembourg, Mauritania, Morocco, Netherlands, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Switzerland, Turkey, United Kingdom**CCC Plastics****Telephone:** 800-465-6917**Web:** <http://www.cccplastics.com/>**Availability:** Canada**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**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**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**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**Telko Oy***Telko Oy is a Pan European distribution company. Contact Telko Oy for availability of individual products by country.***Telephone:** +358-9-5211**Web:** <http://www.telko.com/>**Availability:** Belarus, Denmark, Estonia, Finland, Latvia, Lithuania, Norway, Poland, Sweden, Ukraine