

LG ASA LI912

Acrylonitrile Styrene Acrylate

LG Chem Ltd.

PROSPECTOR®

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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 (English)	Nominal Value (SI)	Test Method
Specific Gravity	1.07	1.07 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	12 g/10 min	12 g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.126 in (3.20 mm))	4.0E-3 to 7.0E-3 in/in	0.40 to 0.70 %	ASTM D955

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus ⁴ (0.126 in (3.20 mm))	302000 psi	2080 MPa	ASTM D638
Tensile Strength ⁵ (Yield, 0.126 in (3.20 mm))	6830 psi	47.1 MPa	ASTM D638
Tensile Elongation ⁵			ASTM D638
Yield, 0.126 in (3.20 mm)	> 6.0 %	> 6.0 %	
Break, 0.126 in (3.20 mm)	25 %	25 %	
Flexural Modulus ⁶ (0.126 in (3.20 mm))	320000 psi	2210 MPa	ASTM D790
Flexural Strength ⁶ (0.126 in (3.20 mm))	11000 psi	75.5 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
-22°F (-30°C), 0.126 in (3.20 mm)	0.73 ft·lb/in	39 J/m	
-22°F (-30°C), 0.252 in (6.40 mm)	0.73 ft·lb/in	39 J/m	
73°F (23°C), 0.126 in (3.20 mm)	3.3 ft·lb/in	180 J/m	
73°F (23°C), 0.252 in (6.40 mm)	2.9 ft·lb/in	160 J/m	

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	103	103	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)	205 °F	96.0 °C	
264 psi (1.8 MPa), Unannealed, 0.252 in (6.40 mm)	187 °F	86.0 °C	
Vicat Softening Temperature	203 °F	95.0 °C	ASTM D1525 ⁷

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94
0.06 in (1.6 mm)	HB	HB	
0.13 in (3.2 mm)	HB	HB	



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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 to 194 °F	80 to 90 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Rear Temperature	356 to 392 °F	180 to 200 °C
Middle Temperature	374 to 410 °F	190 to 210 °C
Front Temperature	410 to 428 °F	210 to 220 °C
Nozzle Temperature	410 to 428 °F	210 to 220 °C
Processing (Melt) Temp	392 to 446 °F	200 to 230 °C
Mold Temperature	104 to 176 °F	40 to 80 °C
Back Pressure	71.1 to 142 psi	0.490 to 0.981 MPa
Screw Speed	50 to 100 rpm	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 0.039 in/min (1.0 mm/min)

⁵ 2.0 in/min (50 mm/min)

⁶ 0.59 in/min (15 mm/min)

⁷ Rate A (50°C/h), Loading 2 (50 N)



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Where to Buy

Supplier

LG Chem Ltd.

Englewood Cliffs, NJ USA

Telephone: 201-816-2302

Web: <http://www.chemwide.com/>

Distributor

Biesterfeld Plastic GmbH

Biesterfeld Plastic GmbH is a Pan European distribution company. Contact Biesterfeld Plastic GmbH 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

Polymer Technology & Services, LLC

Telephone: 800-475-1701

Web: <http://www.ptslc.com/>

Availability: North America

Primeline Polymers

Telephone: 714-745-3617

Web: <http://www.primelinepolymers.com/>

Availability: North 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

Southland Polymers

Southland Polymers - Full Service Engineering and Commodity Resin Distribution Since 1979

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Web: <http://www.southlandpolymers.com/>

Availability: Central America, North America, South America



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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

