

LG ABS ER460

Acrylonitrile Butadiene Styrene
LG Chem Ltd.

PROSPECTOR®

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Technical Data

Product Description

Description

- Medium Heat Resistance
- Good Melt Flow Index

Application

- Automotive, Electric/electronic products

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet - ASTM (English) • Technical Datasheet - ISO (English)
UL Yellow Card ²	• E67171-103338295
Search for UL Yellow Card	• LG Chem Ltd. • LG ABS
Availability	• Asia Pacific • Europe • Latin America • North America
Features	• Good Flow • Medium Heat Resistance
Uses	• Automotive Applications • Electrical/Electronic Applications
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity		
--	1.04 g/cm ³	ASTM D792
--	1.04 to 1.05 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)		
220°C/10.0 kg	22 g/10 min	ASTM D1238
220°C/10.0 kg	23 g/10 min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.40 to 0.70 %	ASTM D955 ISO 294-4
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	2200 MPa	ISO 527-2/1
Tensile Strength		
Yield, 3.20 mm ⁴	45.1 MPa	ASTM D638
Yield	45.0 MPa	ISO 527-2/50
Tensile Elongation ⁴ (Break, 3.20 mm)	15 %	ASTM D638
Flexural Modulus		
3.20 mm ⁵	2550 MPa	ASTM D790
-- ⁶	2300 MPa	ISO 178
Flexural Strength		
3.20 mm ⁵	76.5 MPa	ASTM D790
-- ⁶	65.0 MPa	ISO 178
Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C	8.0 kJ/m ²	
23°C	22 kJ/m ²	



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Impact	Nominal Value Unit	Test Method
Notched Izod Impact		
-30°C, 3.20 mm	98 J/m	ASTM D256
-30°C, 6.40 mm	98 J/m	ASTM D256
23°C, 3.20 mm	250 J/m	ASTM D256
23°C, 6.40 mm	250 J/m	ASTM D256
-30°C	8.0 kJ/m ²	ISO 180/1A
23°C	22 kJ/m ²	ISO 180/1A

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness		
R-Scale	110	ASTM D785
--	112	ISO 2039-2

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Unannealed, 4.00 mm ⁷	89.0 °C	ISO 75-2/Bf
1.8 MPa, Unannealed, 6.40 mm	90.0 °C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm ⁷	82.0 °C	ISO 75-2/Af
Vicat Softening Temperature		
--	97.0 °C	ASTM D1525 ⁸
--	100 °C	ISO 306/B50

Injection	Nominal Value Unit
Drying Temperature	70 to 80 °C
Drying Time	2.0 to 4.0 hr
Suggested Max Moisture	0.050 %
Rear Temperature	180 to 200 °C
Middle Temperature	190 to 210 °C
Front Temperature	200 to 220 °C
Nozzle Temperature	200 to 230 °C
Processing (Melt) Temp	210 to 240 °C
Mold Temperature	40 to 70 °C
Back Pressure	0.490 to 1.47 MPa

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 50 mm/min

⁵ 15 mm/min

⁶ 2.0 mm/min

⁷ 120*10*4mm

⁸ 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

POLY MIX

Telephone: +33-3-8920-1380

Web: <http://www.polymix.eu/>

Availability: Belgium, Croatia, France, Luxembourg, Netherlands, Romania, Serbia, Slovenia, Spain, Tunisia

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

Telephone: 562-921-0444

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

