

LG PMMA EG920

Polymethyl Methacrylate Acrylic

LG MMA Corp.

PROSPECTOR®

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Technical Data

Product Description

LG PMMA EG920 is a Polymethyl Methacrylate Acrylic material. It is available in Asia Pacific, Europe, Latin America, or North America for extrusion.

Important attributes of LG PMMA EG920 are:

- Flame Rated
- RoHS Compliant

Typical application of LG PMMA EG920: Automotive

General

Material Status	• Commercial: Active		
Literature ¹	Processing - LG PMMA (English) Technical Datasheet (English)		
UL Yellow Card ²	E67171-248624 E194507-227593		
Search for UL Yellow Card	LG MMA Corp.		
Availability	• Asia Pacific	• Latin America	• Europe
Uses	• General Purpose		
RoHS Compliance	• RoHS Compliant		
Processing Method	• Extrusion		

Physical

	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.18	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	1.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 to 0.60	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570

Mechanical

	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	70.6	MPa	ASTM D638
Tensile Elongation (Yield)	20	%	ASTM D638
Flexural Modulus	3420	MPa	ASTM D790
Flexural Strength (Yield)	135	MPa	ASTM D790

Impact

	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	1.4	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength	15	kJ/m ²	ISO 179/1eU
Notched Izod Impact (Area)	1.50	kJ/m ²	ASTM D256

Hardness

	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	98		ASTM D785

Thermal

	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	100	°C	
Vicat Softening Temperature	113	°C	ASTM D1525 ⁴

CLTE - Flow

	Nominal Value	Unit	Test Method
CLTE - Flow	6.0E-5	cm/cm/°C	ASTM D696

Electrical

	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms · cm	ASTM D257
Dielectric Strength ⁵	20	kV/mm	ASTM D149
Dielectric Constant (60 Hz)	3.10		ASTM D150
Dissipation Factor (60 Hz)	0.050		ASTM D150

Flammability

	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94



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Optical	Nominal Value Unit	Test Method
Refractive Index	1.490	ASTM D542
Transmittance (3200 µm)	92.0 %	ASTM D1003
Haze (3200 µm)	< 0.100 %	ASTM D1003

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 Loading 1 (10 N)

⁵ 4000 V/sec



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Where to Buy

Supplier

LG MMA Corp.

, South Korea

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

Distributor

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, Italy, Libyan Arab Jamahiriya, Luxembourg, Mauritania, Morocco, Netherlands, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Switzerland, Turkey

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

POLYMIX

POLYMIX is a Pan European distribution company. Contact POLYMIX for availability of individual products by country.

Telephone: +33-3-8920-1380

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

Availability: France, Romania, Tunisia

Resin Resource, Inc.

Telephone: 877-652-3431

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

Availability: North America

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, Russian Federation, Sweden, Ukraine

