

LG PMMA IH830

Polymethyl Methacrylate Acrylic

LG MMA Corp.

PROSPECTOR[®]

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Technical Data

Product Description

LG PMMA IH830 is a Polymethyl Methacrylate Acrylic material. It is available in Asia Pacific, Europe, Latin America, or North America for injection molding.

Important attributes of LG PMMA IH830 are:

- Flame Rated
- RoHS Compliant

Typical application of LG PMMA IH830: Automotive

General

Material Status	• Commercial: Active
Literature ¹	• Processing - LG PMMA (English) • Technical Datasheet (English)
UL Yellow Card ²	• E67171-248633
Availability	• Asia Pacific • Europe • Latin America • North America
Features	• General Purpose
Uses	• General Purpose
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

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)	2.3 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)	13 %	ASTM D638
Flexural Modulus	3410 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 1.8 MPa, Unannealed	101 °C	ASTM D648
Vicat Softening Temperature	114 °C	ASTM D1525 ⁴
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)	< 0.10 %	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 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, 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

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

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

