# **LG PMMA IH830**

Polymethyl Methacrylate Acrylic LG MMA Corp.

# **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

Material Status· Commercial: ActiveLiterature 1· Processing - LG PMMA (English) · Technical Datasheet (English)UL Yellow Card 2· E67171-248633Availability· Asia Pacific · Europe· Asia Pacific · Europe· Latin America · North AmericaFeatures· General PurposeUses· General PurposeRoHS Compliance· RoHS CompliantProcessing Method· Injection Molding	General			
Literature '       • Technical Datasheet (English)         UL Yellow Card <sup>2</sup> • E67171-248633         Availability       • Asia Pacific • Europe       • Latin America • North America         Features       • General Purpose         Uses       • General Purpose         RoHS Compliance       • RoHS Compliant	Material Status	Commercial: Active		
Availability     • Asia Pacific • Europe     • Latin America • North America       Features     • General Purpose       Uses     • General Purpose       RoHS Compliance     • RoHS Compliant	Literature <sup>1</sup>			
Availability     • Europe     • North America       Features     • General Purpose       Uses     • General Purpose       RoHS Compliance     • RoHS Compliant	UL Yellow Card <sup>2</sup>	<ul> <li>E67171-248633</li> </ul>		
Uses     • General Purpose       RoHS Compliance     • RoHS Compliant	Availability			
RoHS Compliance • RoHS Compliant	Features	<ul> <li>General Purpose</li> </ul>		
	Uses	<ul> <li>General Purpose</li> </ul>		
Processing Method • Injection Molding	RoHS Compliance	<ul> <li>RoHS Compliant</li> </ul>		
	Processing Method	<ul> <li>Injection Molding</li> </ul>		

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.18 g/cm <sup>3</sup>	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/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	15 kJ/m²	ISO 179/1eU
Notched Izod Impact (Area)	1.50 kJ/m²	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	101 °C	
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 <sup>5</sup>	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

<sup>1</sup> 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.

<sup>2</sup> 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.

<sup>3</sup> Typical properties: these are not to be construed as specifications.

<sup>4</sup> Loading 1 (10 N)

<sup>5</sup> 4000 V/sec



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# **LG PMMA IH830**

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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



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