LG PMMA IG840

Polymethyl Methacrylate Acrylic **LG MMA Corp**.



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Technical Data

Product Description General purpose grade of PMMA is	largely divided into injection and a	extrusion purpose. Various pellet type of grad	des fit for the proporties of
customer products are available.	largely divided into injection and e	oxtrusion purpose. Various peliet type of grad	des ill for the properties of
General			
Material Status	Commercial: Active		
Literature ¹	Processing - LG PMMA (ITechnical Datasheet (Eng		
UL Yellow Card ²	• E67171-248632		
Availability	Asia PacificEurope	Latin AmericaNorth America	
Features	General Purpose		
Uses	General Purpose		
RoHS Compliance	RoHS Compliant		
UL File Number	• E194507		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Extrusion	Injection Molding	
i iocessing inethod	- LAUUSIOII	- injection moraling	
Physical		Nominal Value Unit	Test Method
Specific Gravity		1.18 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C	/3.8 kg)	5.0 g/10 min	ASTM D1238
Molding Shrinkage - Flow	<u> </u>	0.20 to 0.50 %	ASTM D955
Water Absorption (24 hr)		0.30 %	ASTM D570
Mechanical		Nominal Value Unit	Test Method
Tensile Strength (Yield)		66.7 MPa	ASTM D638
Tensile Elongation (Yield)		8.0 %	ASTM D638
Flexural Modulus		3300 MPa	ASTM D790
Flexural Strength (Yield)		133 MPa	ASTM D790
mpact		Nominal Value Unit	Test Method
Notched Izod Impact		15 J/m	ASTM D256
Hardness		Nominal Value Unit	Test Method
Rockwell Hardness (M-Scale)		96	ASTM D785
Γhermal		Nominal Value Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed		89.0 °C	
Vicat Softening Temperature		109 °C	ASTM D1525 4
CLTE - Flow		0.000060 cm/cm/°C	ASTM D696
RTI Elec (1.50 mm)		50.0 °C	UL 746
RTI Imp (1.50 mm)		50.0 °C	UL 746
RTI Str (1.50 mm)		50.0 °C	UL 746
Flammability		Nominal Value Unit	Test Method
Flame Rating			UL 94
		HB	
1.50 mm, All		HB	
Optical		Nominal Value Unit	Test Method
Refractive Index		1.490	ASTM D542
Transmittance (3000 μm)		92.0 %	ASTM D1003
Haze (3000 µm)		0.50 %	ASTM D1003
Yellowness Index (3.00 mm)		0.40 YI	ASTM D1925

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Injection	Nominal Value Unit	
Drying Temperature	70.0 to 80.0 °C	
Drying Time	4.0 to 6.0 hr	
Suggested Max Moisture	0.10 %	
Rear Temperature	210 to 250 °C	
Middle Temperature	210 to 250 °C	
Front Temperature	210 to 250 °C	
Mold Temperature	70.0 to 80.0 °C	
Injection Pressure	78.5 to 147 MPa	

Notes

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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 IDES 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)

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Polymethyl Methacrylate Acrylic

LG MMA Corp.



Where to Buy

Supplier

LG MMA Corp.

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

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

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

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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Prospector is a searchable online database that includes 85,000 data sheets from 875 manufacturers and 44,000 UL yellow cards. Each data sheet includes property, processing and supplier contact information. Prospector is relied on by nearly 400,000 design engineers and plastics processors. Using Prospector, they save time with plastic material selection by quickly and easily referencing technical information critical to the success of their products.



"Prospector is absolutely the best and most well-known search engine for plastic raw materials in the world. We use Prospector every day – it's a real time saver!"

- Birgit Elvardt Bader, Production Manager, Micotron

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Alternative Resins Search – find replacement plastics within minutes.

Automotive Plastics Search – easily locate automotive approved plastics.

Curve Data – view, overlay and export curve data.



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With our data management services, plastic suppliers and distributors can have custom search interfaces available on their website for their customers, website visitors, sales and customer service teams. These provide intuitive ways to find and view technical data sheets for their products.

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- Kevin Chase, Owner & President, Chase Plastics



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