LG PMMA IF850

Polymethyl Methacrylate Acrylic LG MMA Corp.

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Technical Data

Product Description

LG PMMA IF850 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 IF850 are:

- Flame Rated
- RoHS Compliant
- High Flow

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General		
Material Status	Commercial: Active	
Literature ¹	Processing - LG PMMA (English)Technical Datasheet (English)	
UL Yellow Card ²	E67171-248630E194507-227599	
Search for UL Yellow Card	LG MMA Corp.	
Availability	Asia PacificEuropeNorth America	
Features	High Flow	
Uses	General Purpose	
RoHS Compliance	RoHS Compliant	
Processing Method	Injection Molding	

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.18 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	12 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)	62.8 MPa	ASTM D638
Tensile Elongation (Yield)	10 %	ASTM D638
Flexural Modulus	3300 MPa	ASTM D790
Flexural Strength (Yield)	126 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)	91	ASTM D785
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
1.8 MPa, Unannealed	86.0 °C	
Vicat Softening Temperature	99.0 °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	НВ	UL 94

Form No. TDS-19566-en

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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