

LG PMMA IF870S

Polymethyl Methacrylate Acrylic
LG MMA Corp.

Message:

LG PMMA IF870S 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 IF870S are:

Flame Rated

RoHS Compliant

High Flow

General Information			
Features	High Flow		
Uses	General Purpose		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	21	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 to 0.60	%	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	86		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	60.8	MPa	ASTM D638
Tensile Elongation (Yield)	8.0	%	ASTM D638
Flexural Modulus	3300	MPa	ASTM D790
Flexural Strength (Yield)	125	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
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	84.0	°C	ASTM D648
Vicat Softening Temperature	97.0	°C	ASTM D1525 ¹
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 ²	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
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
NOTE			
1.	Loading 1 (10 N)		
2.	4000 V/sec		

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