

LG PMMA IF860

Polymethyl Methacrylate Acrylic
LG MMA Corp.

Message:

General purpose grade of PMMA is largely divided into injection and extrusion purpose. Various pellet type of grades fit for the properties of customer products are available.

General Information			
Features	General Purpose		
Uses	General Purpose		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Extrusion		
	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)	16	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)	94		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	64.7	MPa	ASTM D638
Tensile Elongation (Yield)	10	%	ASTM D638
Flexural Modulus	3300	MPa	ASTM D790
Flexural Strength (Yield)	128	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	15	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	84.0	°C	ASTM D648
Vicat Softening Temperature	104	°C	ASTM D1525 ¹
CLTE - Flow	6.0E-5	cm/cm/°C	ASTM D696

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

Injection	Nominal Value	Unit
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Drying Temperature	70.0 to 80.0	°C
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.10	%

NOTE

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- Loading 1 (10 N)

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