

LG PMMA IH830H

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
UL File Number	E194507
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)	2.2	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)	98		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	72.6	MPa	ASTM D638
Tensile Elongation (Yield)	10	%	ASTM D638
Flexural Modulus	3360	MPa	ASTM D790
Flexural Strength (Yield)	136	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)	94.0	°C	ASTM D648
Vicat Softening Temperature	113	°C	ASTM D1525 ¹
CLTE - Flow	6.0E-5	cm/cm/°C	ASTM D696
RTI Elec			UL 746
1.50 mm	50.0	°C	
3.00 mm	50.0	°C	
RTI Imp			UL 746
1.50 mm	50.0	°C	

3.00 mm	50.0	°C	
RTI Str			UL 746
1.50 mm	50.0	°C	
3.00 mm	50.0	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
--	HB		
1.50 mm, All	HB		
3.00 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
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	220 to 260	°C	
Middle Temperature	220 to 260	°C	
Front Temperature	220 to 260	°C	
Mold Temperature	70.0 to 80.0	°C	
Injection Pressure	78.5 to 147	MPa	
NOTE			
1.	Loading 1 (10 N)		

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