

# LG PMMA HI835HS

Polymethyl Methacrylate Acrylic

LG MMA Corp.

## Message:

PMMA is excellent in impact resistance compared to general glasses, but relatively lower among plastics so it is demanded to be improved in this respect. LG MMA has improved the impact resistance of PMMA using acrylic rubbers, and maintained the weatherability. Impact resistant grade of PMMA is applied to the area where impact strength is required such as signboards, lightings, displays, and vending machines.

General Information			
Additive	Rubber Impact Modifier		
Features	Good Weather Resistance		
	High Impact Resistance		
	Impact Modified		
Uses	Decorative Displays		
	Electronic Displays		
	Lighting Fixtures		
RoHS Compliance	RoHS Compliant		
Appearance	Clear/Transparent		
Forms	Granules		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	0.90	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.80	%	ASTM D955
Water Absorption (24 hr)	0.40	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	44		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	32.4	MPa	ASTM D638
Tensile Elongation (Yield)	70	%	ASTM D638
Flexural Modulus	1370	MPa	ASTM D790
Flexural Strength (Yield)	54.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	72.0	°C	ASTM D648
Vicat Softening Temperature	92.0	°C	ASTM D1525 <sup>1</sup>
CLTE - Flow	7.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method

Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ASTM D542
Transmittance (3000 μm)	90.0	%	ASTM D1003
Haze (3000 μm)	1.5	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	60.0 to 70.0	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	200 to 250	°C	
Middle Temperature	200 to 250	°C	
Front Temperature	200 to 250	°C	
Mold Temperature	60.0 to 70.0	°C	
Injection Pressure	49.0 to 108	MPa	
NOTE			
1.	Loading 1 (10 N)		

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