



## Technical Datasheet: PMMA IH830

### Product Description:

LG PMMA IH830 is a general purpose polymethyl methacrylate acrylic grade by LG Chem. Exhibits superior transparency, excellent weather resistance, superior scratch resistance and tinting ability. LG PMMA IH830 is suitable for processing by injection molding.

### Applications:

Possible applications include automobile, optical products, electrical and electronic instruments. Complies with RoHS, automotive specification SAE J576 and UL 94 HB flame rating.

### Typical data:

Property	Test method	Unit	value
Density	ASTM D792	g/cm <sup>3</sup>	1.18
Linear Mold Shrinkage, Flow Linear Mold Shrinkage, Transverse	ASTM D955	%	0.2 - 0.6
MFI (At 3.8Kg Load , 230°C)	ASTM D1238	g/10min	2.3
Water Absorption (24hour)	ASTM D570	%	0.3
Flexural Modulus	ASTM D790	MPa	3412.71
Flexural Strength	ASTM D790	MPa	135.33
Hardness, Rockwell M	ASTM D785	-	98
Izod Impact, Notched	ASTM D256	kJ/m <sup>2</sup>	1.5
Tensile Elongation at Break	ASTM D638	%	13
Tensile Strength at Break	ASTM D638	MPa	70.6
CTE, linear, Parallel to Flow CTE, linear, Transverse to Flow	ASTM D696	μm/m-°C	60
Heat Deflection Temperature (At 18.6Kg Load , unannealed)	ASTM D648	°C	94
Heat Deflection Temperature (At 18.6Kg Load , annealed)			101
Vicat Softening Point	ASTM D1525	°C	114
Haze	ASTM D1003	%	0.1
Refractive Index	ASTM D542	-	1.49
Transmission, Visible	ASTM D1003	%	92