



# Glastic<sup>®</sup> High Impact PMMA Sheet

**Product Name : MCL+HI**

**Type : Clear**

**Materials : Hi-impact Poly(methyl methacrylate)**

**Dimension : User spec**

**Thickness : 0.5~1.5mm**

Property	Test Method	Units	Value	Note
<b>Manufacturing Specifications</b>				
Thickness Tolerance	Thickness Measuring System	%	< ±5	0.5mm
			< ±3	more than 0.5mm
<b>Physical Property</b>				
Specific gravity	ISO 1183		1.17	
Water absorption@23°C ,24hr	ISO 62	%	0.3	
<b>Mechanical and Thermal Property</b>				
Tensile Strength	ISO 527-2	MPa	55	
Flexural Modulus	ISO 178	Gpa	2.5	
Charpy impact Strength(with notch)	ISO 179	KJ/m2	3.8	
Rockwell Hardness	ISO 2039-2	M scale	75	
Pencil Hardness	ISO 15184		H	
Vicat softening point	ISO 306	°C	101	
Heat Deflection Temp.(1.8MPa)	ISO 75-2	°C	92.0	
<b>Optical Property</b>				
Refractive Index n <sub>D</sub>	ISO 489		1.49	
Light Transmittance	ASTM D1003	%	>91	at 550nm
Yellow Index	ASTM E313	%	<0.5	
Haze	ASTM D1003	%	<1.0	
<b>RoHS</b>				
Cadmium(Cd)			N.D.	
Lead(Pb)			N.D.	
Mercury(Hg)			N.D.	
Hexavalent Chromium(Cr VI)			N.D.	
Polybrominated Bisphenyl(PBBs)			N.D.	
Polybrominated Diphenyl Ether(PBDEs)			N.D.	Test Report
<b>Halogen</b>				
Bromine(Br)			N.D.	
Chlorine(Cl)			N.D.	
Fluorine(F)			N.D.	
Iodine(I)			N.D.	

\* These are typical properties are not intended for specification purposes.