

**Typical Properties of LG PMMA IF850**

ITEMS	METHOD	CONDITION	UNIT	IF850
<b>Physical Properties</b>				
Specific Gravity	D792	-	-	1.18
Total Light Transmission	D1003	3.2mm	%	93
Refractive Index	D542			1.49
Haze	D1003	3.2mm	%	0.5
Water Absorption	D570	24hr	%	0.3
<b>Thermal Properties</b>				
Melt Flow Index	D1238	230°C, 3.8kg	g/10min	12.3
Vicat Softening Temperature	D1525	1kg	°C	100
Coefficient of Linear Expansion	D696	-	1/°C	6 x 10 <sup>-5</sup>
Mold Shrinkage	D955	-	%	0.2-0.6
Heat Distortion Temperature	D648	Annealed 18.6kg	°C	90
<b>Mechanical Properties</b>				
Izod Impact Strength	D256	Notched	kg xcm/cm	1.5
Rockwell Hardness	D785	M-Scale	-	90
Tensile Strength	D638		kg/cm <sup>2</sup>	710
Elongation	D638		%	13
Flexural Strength	D790		kg/cm <sup>2</sup>	1,310
Flexural Modulus	D790		kg/cm <sup>2</sup>	33,700
<b>Electrical Properties</b>				
Volume Resistivity	D257		Ω cm	>10
Dielectric Strength	D149	4KV/S	KV/mm	20
Dielectric Constant	D150	60Hz	-	4
Power Factor	D150	60Hz		0.05