

<b>PLAGLAS<sup>®</sup></b>	PRODUCT	Polycarbonate Light Diffusion Sheet / Roll
	GRADE	PC-WHT(1.8T)
	THICKNESS	1.8~4.5mm

The purpose of making the diffusion board is to minimize this loss and get most function out of it.

Properties	Test method	Condotion	Unit	Value
<b>PHYSICAL PROPERTIES</b>				
Specific gravity	ASTM D792	Natural	-	1.2
Water absorption	ASTM D570	23°C,24hr	%	0.58
<b>OPTICAL PROPERTIES</b>				
Light Transmittance	ASTM D1003	3mm	%	55
HAZE	ASTM D1003	-	%	99
Total Luminous Transmittance	ISO 13468-1	3mm	%	53
Light diffusivity	-	3mm	%	60
<b>MECHANICAL PROPERTIES</b>				
Tensile strength	ASTM D638	50mm/min	Mpa	66
Tensile strain	ASTM D638	50mm/min	%	135
Flexural strength	ASTM D790	2.8mm/min	Mpa	100
Flexural Modulus	ASTM D790	2.8mm/min	Mpa	2340
Izod impact strength	ASTM D256	3.2mm	KJ/m <sup>2</sup>	82
Charpy impact strength	ASTM D6110	3.0mm	KJ/m <sup>2</sup>	80
<b>THERMAL PROPERTIES</b>				
Heat deflection temperature	ASTM D648	1.8Mpa	°C	145
Heat deflection temperature	ASTM D648	0.45Mpa	°C	139
Linear expansion coeffient	ASTM D696	-	cm/cm/°C	6.8×10 <sup>-5</sup>
Vicat softening Temperature	ISO 306	B/50	°C	142

## Application



Channel sign

LED light diffuser panel