



Glastic® CCL+LGP(Light Guide Plate)

Product Name : CCL+LGP, ("+" means thickness in micron)

Type : Clear

Materials : Polycarbonate

Dimension : User spec

Thickness : 0.20~0.60 mm

Property	Test Method	Units	Value	Note
Manufacturing Specifications				
Thickness Tolerance	Thickness Measuring System	%	< ±5	0.4mm or less than 0.4mm
			< ±3	more than 0.4mm
Physical Property				
Specific Gravity	ISO 1183		1.2	
Water Absorption@23°C ,24hr	ISO 62	%	0.15	
Mechanical and Thermal Property				
Tensile Strength at Yield	ISO 527-2	MPa	65	
Tensile Elongation at Break	ISO 527-2	%	60	
Tensile Modulus	ISO 527-2	GPa	2.3	
Izod Impact Strength	ISO 180	J/m	270.0	
Rockwell Hardness	ISO 2039-2	M scale	58	
Heat Deflection Temp.(0.45MPa)	ISO 75-2	°C	137	
Coefficient of Linear Thermal Expansion	ISO 11359-2	mm/mm/°C	70 x 10 ⁻⁶	
Optical Property				
Refractive Index n _D	ISO 489		1.59	
Gloss	ISO 2813	GU	>99	60°
Light Transmittance	ASTM D1003	%	>89	at 550nm
Yellow Index	ASTM E313	%	<0.7	
Haze	ASTM D1003	%	<0.4	
Surface Roughness Property				
Roughness R _{3z}	ISO 12085	µm	<0.5	λ=0.25
RoHS				
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
Halogen				
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.