





PLAGLAS®	PRODUCT	Polycarbonate Solid Sheet / Roll
	GRADE	PC-TR

It is a transparent plastic board made of polycarbonate

Properties	Test method	Condotion	Unit	Value
PHYSICAL PROPERTIES				
Specific gravity	ASTM D792	Natural	—	1.2
Water absorption	ASTM D570	23°C,24hr	%	0.58
Refracctive index	ASTM D542	—	—	1.59
OPTICAL PROPERTIES				
Light Transmittance	ASTM D1003	—	%	89
HAZE	ASTM D1003	—	%	1
Yellowness index	ASTM D1925	Less than	%	2
MECHANICAL PROPERTIES				
Tensile strength	ASTM D638	50mm/min	Mpa	70
Tensile strain	ASTM D638	50mm/min	%	125
Flexural strength	ASTM D790	2.8mm/min	Mpa	100
Flexural Modulus	ASTM D790	2.8mm/min	Mpa	2410
Izod impact strength	ASTM D256	3.2mm	KJ/m ²	85
Charpy impact strength	ASTM D6110	3.0mm	KJ/m ²	82
Rockwell hardness	ASTM D785	—	R Scale	118
THERMAL PROPERTIES				
Heat deflection temperature	ASTM D648	1.8Mpa	°C	142
Heat deflection temperature	ASTM D648	0.45Mpa	°C	132
Linear expansion coeffient	ASTM D696	—	cm/cm/°C	6.8×10^{-5}
Vicat softening Temperature	ISO 306	B/50	°C	145

Application				
	Soundproof walls	Canopy	window	machine covers