



Polycarbonate Solid Sheets

Safety and Versatility

Polycarbonate sheets are similar to glass, but with very high impact resistance, being indicated on a series of different applications as: panels, lightning, luminaire, shields, lamps, car headlight, car bumpers, electric and electronic compounds, protection cabins, among many other.

The high impact resistance, excellent transparency, relatively low weight and UV protection additives (keeps transparency and mechanical properties much longer), give the solid polycarbonate sheets a very wide possibility of uses, with emphasis on external uses.

The sheets relatively lightweight, beyond making it easier to handle, proportionate bigger economy when compared to glass, mainly in projects that require a support structure. Polycarbonate sheets are compatible with any supporting materials, such as wood, aluminum or other metals.

Thanks to its physical chemical characteristics, solid polycarbonate sheets can be cut, milled, stamped with molds, drilled, screw threaded, bended, rived and vacuum formed, or mechanically formed by compression.

Technical Information

Polycarbonate Sheets Properties

Description	Test	Unit	Value
Specific Weight	DIN 53479	g/cm ³	1.2
Light transmission (Thick.3mm, transparent)	DIN 5036	%	88
Refraction Index	DIN 53491		1.586
Tensile resistance, elastic	DIN 53455	N/mm ²	>60
Tensile resistance, rupture	DIN 53455	N/mm ²	>70
Elasticity module	DIN 53457	N/mm ²	2300
Impact resistance @23°(Charpy/ notched)	DIN 53453	Kj/m ²	>30
Linear dilatation coefficient		l/K	68x10 ⁻⁶
Thermal conductivity	DIN 52612	W/mK	0.21
Heat deflection temperature			
- Load 1,81 N/mm ²	DIN 53461	°C	135
Maximum continuous application			
- temperature		°C	100