

clear-PEP[®] ECO PC clear

PRODUCT DESCRIPTION

Facing sheet on both sides: transparentes Polycarbonat mit nachhaltigem Rohstoffanteil



Core: PC-TRCore honeycomb



The distinctive TRCore for our clear-PEP[®] panels is manufactured on our specially designed and patented core expander. The innovative characteristic of the special cell structure gives the lightweight panels not just a unique depth but also an extremely high rigidity.

The various types of panels in the clear-PEP[®] family differ in their facing sheet materials, cores, surface structures, physical properties, dimensions and colours.

PC ECO is a top layer with a biocircular material content and a low CO2 footprint. This means that the part of the material that is normally made from fossil components is replaced by renewable raw materials. The attributed sustainable share is up to 83% of the total content.

PROPERTIES

- Top layer up to 83% sustainable raw material content
- unique 3D effects and light scattering
- excellent UV stability and resistance to weathering
- low weight
- easy processing
- compatibility with common mounting systems
- excellent rigidity
- high impact strength
- innovative translucent optics

DIMENSIONS

Format	Length [mm]	Width [mm]	Thickness [mm]
Standard	3020	1220	19
Special dimensions * **	max. 4500	max. 2020	max. 40

Tolerances	Length [mm]	Width [mm]	Thickness [mm]
Cut to size	+2/-2	+1/-2	+0/-1

*on request - minimum order per special size: 200 m²

**all panels over 3020 x 1220 mm with core joint



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GENERAL PHYSICAL PROPERTIES

Coefficient of thermal expansion acc. to DIN 53752-A	Service temperature	Fire class		G-Value (total energy transmission value)			
[1/K]	[°C]	BS	EN	Solar angle			
6,5 x 10 ⁻⁵	-30 to +80	476 Part 7	13501	0°	30°	45°	60°
		1Y	B s1 d0	0,62	0,58	0,55	0,43

MECHANICAL PROPERTIES

Thickness [mm]	Weight per unit area [kg/m ²]	Thermal insulation U-value [W/m ² K]	Sound insulation Rw [dB]	Bending stiffness* [Nm ²]
19	8,5	2,7	24	629
30	9,7	2,4	25	1688
40	9,7	2,1	25	2933

*per m panel width

APPLICATIONS



customized application according to our mission



All these specifications are based on our most-up-to-date information but are subject to changes at any time. A legally binding assurance of certain properties or the suitability of an individual type for a specific field of application cannot be assumed from these specifications. All information is provided without any obligation. No legal liability can be assumed.

