clear-PEP[®] UV PC stage



PRODUCT DESCRIPTION

Facing sheet on both sides:

transparent structured polycarbonate

Core:

PC-TRIcore honeycomb



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

The 2 mm UV resistant PC-facing sheets with a structured surface on both sides give the panels a translucent appearance and a slip reduced character. It can be used as backlit and suspended flooring.

PROPERTIES

- · innovative translucent optics
- unique 3D effects and light scattering
- highly scratch resistant and slip reduced surface
- excellent UV stability
- low weight

- easy processing
- compatibility with common mounting systems
- excellent rigidity
- high impact strength
- slip reduction class R9 according to DIN 51130

DIMENSIONS

Format	Length [mm]	Width [mm]	Thickness [mm]
Standard	2000	1000	40
Special dimensions * **	max. 7800	max. 1420	max. 80
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 longer than 3020 mm with core joint

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GENERAL PHYSICAL PROPERTIES

Coefficient of thermal expansion acc. to DIN 53752-A	Service temperature	Fire class		
[1/K]	[°C]	BS 476 Part 7	EN 13501	
6,5 x 10⁻⁵	-30 to +80	2Y	Bfl s1	

MECHANICAL PROPERTIES

Thickness [mm]	Weight per unit area [kg/m²]	Thermal insulation U-value [W/m²K]	Sound insulation Rw [dB]	Bending stiffness* [Nm²]
30	9,7	2,4	25	1688
40	9,7	2,1	25	2933

*per 1 m panel width

LOAD VALUES

	Suj	Support centers 500 mm		Support centers 750 mm		Support centers 1000 mm			
Thickness in mm Deflection in mm, support on 2 sides	30	40	50	30	40	50	30	40	50
Applied load 2500 N/m ²	1,0	0,6	0,4	4,7	2,6	1,7	14,5	8,1	5,1
Applied load 3500 N/m ²	1,4	0,8	0,5	6,6	3,7	2,4	-	11,3	7,2
Applied load 5000 N/m ²	2,0	1,1	0,8	9,4	5,3	3,4	-	-	-
Deflection in mm, support on 4 sides									
Applied load 2500 N/m ²	0,6	0,5	0,2	1,9	1,1	0,7	4,3	2,5	1,6
Applied load 3500 N/m ²	0,8	0,5	0,3	2,6	1,5	2,0	6,0	3,4	2,3
Applied load 5000 N/m ²	1,2	0,7	0,5	3,8	2,2	1,5	8,6	4,9	3,3

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EXAMPLES OF USE

Stair treads



Illuminated and raised flooring



APPLICATIONS

interior

interior fittings | furniture | floors/walls/ceilings | partition walls/doors | stairs | illuminated elements | retail & booth constructions | corporate design & artistic objects

customized application according our mission design composite

For use in damp please contact Design Composite for technical assistance!

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.