

TECHNICAL DATA

BENCORE LIGHTBEN

LIGHTBEN is an ultra-light composite panel with a core made of transparent cylindrical polycarbonate cells and external layers formed from colourless or coloured methacrylate sheets, with satin or gloss finishes. The particular structure of the panel creates partial transparency, which varies according to the visual angle, while the outer layers allow a variation in the transmission and shading of the colour of the light. Thanks to these special aesthetic characteristics, its light weight and exceptional rigidity, LIGHTBEN is suitable for a wide variety of indoor applications. Easy to cut, the LIGHTBEN panel can be finished with standard accessory profiles and systems, such as frames, handles or hinges.

TYPES AND FORMATS

Adapting always to the needs of each customer, the Lightben is also offered in various versions:

- Plus, which complies with B1 fire regulations.
- Large, which can be up to 34mm thick.
- Acoustic, specifically designed for areas where acoustic insulation is required.
- Kaos, with an irregular structure of its cylindrical cells, enhancing the games of lights and shadows.

APPLICATION AREAS

- " Partition panels.
- " Furniture.
- Visual merchandising.
- " Backlighting.
- Stands for fairs.
- Interior architecture.
- Doors.

TECHNICAL SPECIFICATIONS – BENCORE LIGHTBEN

Properties

Physical properties

Honeycomb core	Polycarbonate
External skins	Acrylic
Thickness	21±10%
Length	3015 ± 2
Width [mm]	1000 + 1 / -2
Unit weight [kg/m ²]	8,5
Fire rating (available B1 for Lightben plus)	-
Thermal expansion coefficient [mm/m ² k]	0.067
Service temperature [°C]	-10 / +50
Thermal insulation (Uni-en 674) [w/m ² k]	2,9
Sound insulation Rw (uni-en iso 354) [db]	22
Sound absorption w (iso 11654) [db]	-
Elasticity module (uni-en 310) [N/mm ²]	850
Flexural strength (uni-en 310) [n/mm ²]	25
Bending stiffness [N αm ²]	650
Compressive strength [N/mm ²]	1.0

The properties described here are typical values of the material. Polimer Tecnic is not responsible for the materials of a specific consignment to exactly match the given values, being able to carry out tests of that heading. The above information is based on our experience and is given in good faith. Due to some installation and processing factors that are beyond our knowledge and control, no guarantee is given regarding such information.