

## TECHNICAL DATA

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### BENCORE ECOBEN

ECOBEN is a composite panel for interior architecture with an alveolar core in 100% recycled cardboard formed by corrugated covers superimposed 5mm apart. The ECOBEN is laminated with copolyester resin or acrylic resin, and can have smooth or satin finishes. ECOBEN can be used for walls, doors, tables, shelves and many other applications in interior architecture with a high design content and originality, centred on natural or recycled materials.

#### TYPES AND FORMATS

It is offered in several versions with the option of smooth or satin finishes, as well as the option of class 2 fire certification according to UNI9177 regulations.

#### APPLICATION AREAS

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

## TECHNICAL SPECIFICATIONS – ECOBEN

Properties	Ecoben Plus	Ecoben		
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### Physical properties

Honeycomb core External skins	Alveolar in cardboard			
	PETG		Acrylic	
Thicknesses	19±0.5mm	32±0.5mm	21±10%	34±10%
Length	3015 ± 2	3015 ± 2	3015 ± 2	3015 ± 2
Width [mm]	1000 + 1 / -2	1000 + 1 / -2	1000 + 1 / -2	1000 + 1 / -2
Unit weight [kg/m <sup>2</sup> ]	7.00	8.60	9.10	10.70
Fire rating	Class 2	-	-	-
Thermal expansion coefficient [mm/m°k]	0.067	0.067	0.067	0.067
Service temperature [°C]	-10 / +50	-10 / +50	-10 / +50	-10/+50
Thermal insulation (Uni-en 674) [w/m <sup>2</sup> k]	1.3	-	-	-
Sound insulation Rw (uni-en iso 354) [db]	21	21	23	23
Sound absorption w (iso 11654) [db]	-	0.35**	-	-
Elasticity module (uni-en 310) [N/mm <sup>2</sup> ]	-	430	-	430
Flexural strength (uni-en 310) [n/mm <sup>2</sup> ]	-	-	-	-
Bending stiffness [N ⋅ m <sup>2</sup> ]	-	-	-	-
Compressive strength [N/mm <sup>2</sup> ]	-	-	-	-

\*UNI 9177\*\* Acoustic panel with micro-perforated 1mm skin.

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.