

## TECHNICAL DATA

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### VITBOND®

VITBOND® is a panel composed of aluminum with a polyethylene core that is characterized by its high print quality, making it especially suitable for the VISCOM (visual communication) sector. The treatment of its external aluminum layers offers an optimal adhesion of the inks, showing brighter colours. In addition, its ultra-smooth surface on both sides allows direct photographic printing on aluminum, giving a high level of quality to the image. VITBOND® is a coextrusion product ideal for outdoor communication, thanks to its resistance to weathering. This is due to the high adhesion of aluminum to the inner core, which prevents delamination.

For handling, VITBOND® presents a protective film that is easily removed, without the need to touch the surface. The surface is also antistatic, so that after the removal of the protective film, it allows direct printing. The aluminum layers of the VITBOND® in 0.2mm have a premium quality, offering high mechanical performance that allows the panel to be folded several times without breaking.

With its quality certified by the EU, VITBOND® is manufactured in Europe, allowing a fast and efficient regular supply. VITBOND® is available in a very extensive range of colours, and also with a mirrored surface, allowing the manufacture of a specific colour required by the customer for a minimum quantity in a short period of time.

### ADVANTAGES OF VITBOND®

- Allows surface printing.
- Easy to install.
- Uniform and smooth surface.
- Light.
- Easy to manipulate, mill and bend.
- Great weather resistance.
- Available in a wide range of colours and finishes.
- Countertype service using RAL, NCS, BS and Pantone references.
- Minimum order in small quantities.

### APPLICATION AREAS

- External advertising.
- Corporate identification.
- Interior design.
- Sign manufacture.
- Signs.
- 3D signage.
- Embossed lettering.
- Lightweight hanging signs
- Point of sale exhibitors.
- Transport.
- Vinyl applications.
- Modular sign systems.
- Stand design
- Decoration and interior panels.
- Direct screen printing and UV printing.

## TECHNICAL SPECIFICATIONS - VITBOND®

### Properties

Panel thickness	3mm
Aluminum plate thickness	0.2mm
Standard measures	1220mm x 2440mm 1500mm x 3050mm

### Tolerances

Thickness	- 0 + 0.2mm
Width	± 2.00mm
Length	± 3.00mm
Diagonal	± 5.00mm
Thermal expansion	2.4mm/m to 100°C temperature range
Aluminum thickness (mm)	Where appropriate, as specified in EN485-4; o ±0.02

### Product properties

Weight	3.75 Kg/m <sup>2</sup>
Core composition	Polyethylene
Sound absorption NRC	0.05
Sound attenuation R <sub>w</sub> DB	24
Thermal performance values R	0.0057
Water absorption % by volume	0.01
Inflammability BS476	part 6: class 0, part 7: class 1 (Same as DIN 4102-1 class B2)

### Surface properties

Paint thickness (microns)	20
Pencil scratch resistance	> HB
Coating hardness	3T
Temperature resistance	-50°C to +80°C
Impact resistance (Kg/cm <sup>2</sup> )	42
Oil resistance	Surface immersed in motor oil 20W50 for 24h without changes
Solvent resistance	Cleaned 100 times with dimethylbenzene without changes
Cleaning resistance	> 1000 times without changes
Boiling water resistance	Boiled for 2 hours without changes
Acid resistance	Surface immersed in 2% HCl for 24 hours without changes
Alkaline resistance	Surface immersed in 2% NaOH for 24 hours without changes
Peel strength 180	> 5 Newton / mm

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.