



Characteristics

- BioPanel is a natural product
- 100% biobased raw materials
 - Bio Polymer (PLA)
 - Industrial Hemp Fibre
- 100% recyclable into new panels
- Biodegradable
 - No damage to ecosystem
 - Deposit upon return after the end of the life cycle
- CO2 Neutral (LCA available)
- Strength comparable to HPL panels
- Formats available in one piece as standard in all sizes possible up to the maximum size of 1020 x 2040 mm in both 2, 3 and 6mm thickness. Different sizes available by arrangement.
- Available in brown (natural colour) and black (carbon black added)
- Warranty for outdoor use 10 years
- Delivery time 2 weeks

Technical values

- | | |
|--|---|
| • Density | 1270 kg/m ³ |
| • Colour Dark brown (similar to Ral 8017) | Natural colour
mutual color difference is possible
UV causes fading of the brown colour |
| • Black (similar to Ral 9004) | Coloured with carbon black
Stable colour
UV hardly bleaches the colour
Natural reduction of biodegradation |
| • Heat expansion coefficient | 68µm/m-°C |
| • Heat distortion temperature | 140°C |
| • Charpy impact strength unnotched at 23°C | 30 KJ/ m ² |
| • Charpy impact strength notched at 23°C | 4 KJ/ m ² |
| • Tensile modulus, test speed 1mm/min, 4mm thick | 3600 Mpa |
| • Hardness Shore D | 90 |



Storage and Handling

- Good machining, including CNC milling, laser cutting, sawing, thermal bending
 - CNC milling:
 - Milling type: HPL
 - Machining speed: 70 to 140 mm per second
 - RPM: 14.000 to 18.500
 - Passages: 3 mm plate 2 to 4 steps, 6 mm plate 4 to 8 steps
- Direct printing is possible.
- To be provided with PVC-free film and PVC-free protective laminate (with UV filter). Film adhesion depends on the film used. For outdoor applications, we recommend an adhesion of more than 15 Newton / inch. If you would like to know which films we have had good experiences with, please contact us.
- BioPanel works slightly under the influence of moisture. When mounting, keep in mind that BioPanel can move in relation to the other materials on which or to which BioPanel is mounted. Furthermore, when hanging BioPanel freely, make sure that the front and back side have received the same treatment. If you want to know about our experiences, please contact us.
- BioPanel should be stored vertically.
- BioPanel should be stored in a dry place between 5 and 25 degrees Celsius and should be protected from moisture and direct UV light.
- Improper storage can cause degradation of the material, which results in colour changes, and odour generation. It can have negative effects on the physical properties of the material.
- For cleaning use a cleaner designed for painted surfaces. The cleaner must be wet, non-abrasive, without strong solvents and have a pH-value between 4 and 11 (neither strongly acidic nor strongly alkaline).
- This material is classified as a non-hazardous preparation.
- BioPanel is BIO material, 100% made of renewable plant resources, not petrochemical.

Contact

For questions or advice, please contact:

BioPanel

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Disclaimer:

- All tests were run under laboratory conditions according to ISO testing procedures (where applicable).
- The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere.
- BioPanel BV assumes no liability whatsoever in respect of application, processing or use made of the information mentioned in this document.