

PowerpleX Bio



ENVIRONMENTALLY FRIENDLY & ORGANIC PLYWOOD

PowerpleX Bio is a biological product which contains organic glue that is free of toxic and carcinogenic substances such as formaldehyde. Regular plywood contains plastic and toxicities and is not easy to dispose after demolition. PowerpleX Bio lasts as long as a regular product and can even be composted.

A plywood product starts life as a tree, in a sustainably managed forest. In this stage, the product extracts carbon dioxide (CO₂) from the atmosphere. If we never incinerate the product, we therefore enjoy the environmental benefit of the stored CO₂.

0% Formaldehyde

Reuse, recycle, landfill and never incinerate

PowerpleX Bio shows that plywood should be reused, recycled or landfilled because it is much more environmentally friendly if it is never incinerated.

Nevertheless, PowerpleX Bio is, if incinerated, also more environmentally friendly than other plywood. For example, it causes **46% less carbon emissions** than PowerpleX Pure, what makes it nearly half more environmentally friendly.



With Organic glue

Human toxicity

Human toxicity is the impact on humans of toxic substances emitted to the environment.

During the production of PowerpleX Bio, much less toxic substances are emitted than during the production of average plywood: the production of PowerpleX Bio is **35% less toxic for humans** than average plywood.

Carbon emissions: impact on climate change

An indicator of potential global warming due to emissions of greenhouse gases (CO₂-equivalents) into the air.

The production process of PowerpleX Bio is **39% less polluting** than the production of average plywood.

Disclaimer

The data used for the LCA study of PowerpleX Bio and PowerpleX Pure was provided by the factory. Therefore, the information is correct to the best of our knowledge. However, Houtwerf makes no warranty, express or implied, to the accuracy of the data or results. The data for plywood averages is from the 'Nationale Milieudatabase'. Because PowerpleX is produced in Asia, average data from the production of plywood outside of Europe has been used. All results are based on calculations per m³.