Promat

ENVIRONMENTAL PRODUCT DECLARATION SUMMARY

MICROTHERM® FELEXIBLE PANELS RANGE: (SEMI-)OVERSTICHED, (SEMI-) QUILTED, SLATTED, AEROGUARD (>160 KG/M³) AND SLIMFLEX

Product description

Microtherm® Flexible panels are **microporous insulations, suited for high temperature applications** in various industries, including oil and gas, energy, heavy industry, transportation, and marine.

Declared/Functional Unit

Results below are related to **1m², (thickness 10mm)** of a Microtherm® Flexible panel with thermal conductivity between 0.025-0.035 W/MK at 200 °C.

The reference product used for this EPD is the Microtherm® Overstitched panel 1000R and 1000R HY with a density of 220 kg/m³ and a thickness of 10mm. The results are representative for the flexible panel range, including (Semi-)Overstitched Panels, (Semi-)Quilted Panels, Slatted Panels, Aeroguard (>160 kg/m³) and Slimflex.

EPD Programme operator	IBU (Institut Bauen und Umwelt e.V)	LCI Database/ Calculation date	Ecoinvent 3.8
EPD registration no.	EPD-ETE-20230096-IBA1-EN	Geographical scope	Europe
Validity period	14/06/2023-13/06/2028	Manufacturing location	Sint-Niklaas, Belgium
Followed standards for LCA/EPD	ISO 14025 & EN15804+A2:2019	Reference year of production data	2021

Key Assessment Results

CARBON FOOTPRINT	Total Global Warming Potential (GWP) including fossil, biogenic and luluc GWP
Cradle to gate* [A1–A3]	7.99** kgCO$_2$–Eq./m²
Cradle to gate, with options [A1–A3, C1–C4***]	8.59 kgCO$_2$–Eq./m²

* Cradle to gate includes the following life cycle stages:

Module A1 – Production of raw materials

Module A2 – Transport of raw materials to manufacturing site

Module A3 – Production of final product

** Microtherm uses 100% green electricity as the main energy source during the manufacturing of Flexible panels' range.

*** Modules C1–C4 include the impact at the end-of-life stage of the product, including Deconstruction/demolition, Transportation, Waste processing and Disposal.

For the full EPD, visit: Veröffentlichte EPDs | Institut Bauen und Umwelt e.V. (ibu-epd.com)

For additional product information, visit: Flexible panels - Promat

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