Promat

# ENVIRONMENTAL PRODUCT DECLARATION SUMMARY
# PROMALIGHT®MACHINED PARTS

## Product description

PROMALIGHT® MACHINED PARTS are accurately pre-machined microporous insulation components based on the PROMALIGHT® product range. They are available with various coatings and coverings, for incorporation into demanding products and assemblies. The formulation is an opacified blend of filament reinforced pyrogenic silica (alumina for 1200 grade). PROMALIGHT® MACHINED PARTS are 100% tailor made from selection of material grade right through to product finishing.

## Declared/Functional Unit

Results below are related to the production of 1kg of PROMALIGHT® MACHINED PARTS based on PROMALIGHT®1000R and 1000R HY as pre-materials for machined parts microporous insulations.

It has been decided to define 1kg instead of 1m$^2$ as the declared unit. PROMALIGHT® MACHINED PARTS are sold in a wide variety of shapes and thicknesses, based on the customer's needs. By declaring 1 kg of the product and assuming proportionality between the mass and its environmental impact, the user can recalculate the impacts per piece of machine part by multiplying the results of the EPD with the weight of the piece.

| | | | |
|---|---|---|---|
| **EPD Program operator** | Institut Bauen und Umwelt e.V. (IBU) | **LCI Database/ Calculation date** | Ecoinvent 3.9.1 and Industry 2.0 |
| **EPD registration no.** | EPD-ETE-20240054-IBA1-EN | **Geographical scope** | Europe |
| **Validity period** | 19/12/2024-18/12/2029 | **Manufacturing location** | Sint-Niklaas, Belgium |
| **Followed standards** | ISO 14025 & EN15804+A2 | **Reference year** | 2021 |

## KEY ASSESSMENT RESULTS

| CARBON FOOTPRINT | Total Global Warming Potential (GWP) including fossil, biogenic and luluc GWP |
|---|---|
| **Product** - Cradle to gate [A1–A3](1) | 1.57 kg$CO_2$–Eq./kg |
| **Embodied Carbon** - Cradle to Grave, Modules [A1-A5(2), B1-B5 and C1-C4(3)] | 1.70 kg$CO_2$–Eq./kg |

(1) : *The manufacturing site uses 100% green electricity (hydropower) as the only energy source during manufacturing.*
(2) : *Note that only packaging waste is included in module A5.*
(3) : *'Landfilling' was assumed as the End of Life scenario.*

| Product | | | Construction | | Building maintenance and use - B | | | | | | | Building End of Life - C | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A1 | A2 | A3 | A4 | A5 | B1 | B2 | B3 | B4 | B5 | B6 | B7 | C1 | C2 | C3 | C4 |
| Raw Material | RM Transport to Factory | Manufacture products | Transport to site | Construction of the building | Use | Maintenance | Repair | Replacement | Refurbishment | Energy use for Building usage | Water Use for Building usage | Demolishing the building | Haul away waste materials | Recycling | Disposal |
| Embodied carbon | | | | | | | | | | | | Embodied carbon | | | |

For the full EPD, visit: Veröffentlichte EPDs | Institut Bauen und Umwelt e.V.

For additional product information, visit: PROMALIGHT® - Promat

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