



Optimization Summary

Environmental Product Declaration

Company Name **Mohawk Industries**

Validity Period **February 18th, 2026 - August 21st, 2029**

EPD Name, Declaration Number, Certification Period
Nylon on EcoFlex® Matrix, 4791449583.102.2, August 21, 2024 - August 21, 2029

Reference EPD Name, Declaration Number, Certification Period

Nylon on EcoFlex® Matrix, 14168934.102.1, April 1, 2022 - April 1, 2027

Product Category Rules & Version Number PCR for Building-Related Products and Services - Part A: Calculation Rules for LCA and Requirements (UL Environment, v4.0 2022); Part B: Flooring EPD Requirements UL 10010-7 v2.0 September 2018

Reference EPD Product Specific Industry Average

Link to Optimization Addendum https://spot.ul.com/main-app/products/detail/66cdf81d4238f88cb1b6c352?page_type=Products%20Catalog

Comparability Criteria Totals (from comparability worksheet) **11** **1** **0** **0**

Conforms with LEED v4 Building Product Disclosure and Optimization - EPDs, Option 2. Multi-attribute optimization
The comparison of these construction products conforms to the requirements of ISO 14025 §5.6, §6.7.2 and ISO 21930 §5.5, §7.3.



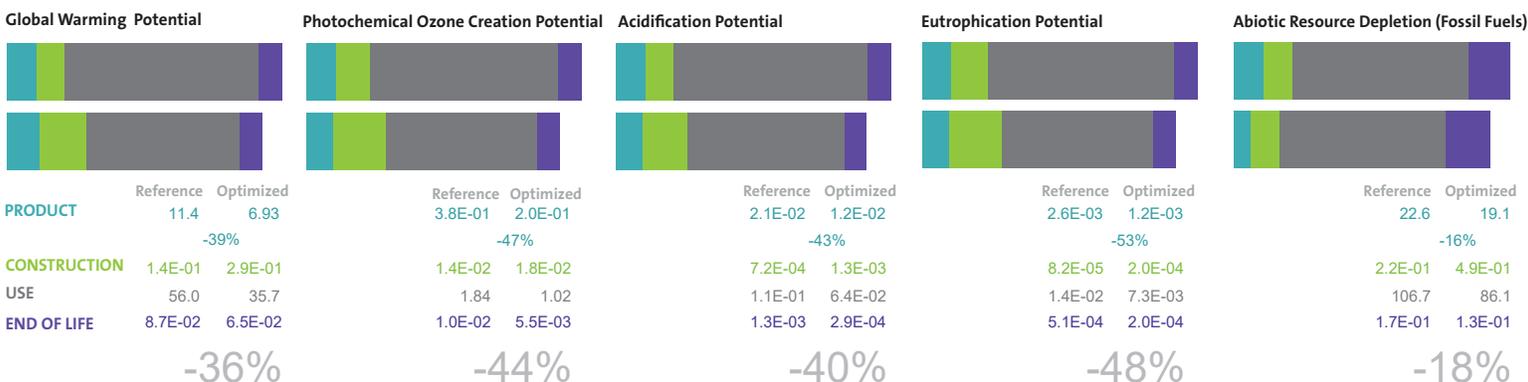
Results

Modules in Which Changes Occur

PRODUCT STAGE			CONSTRUCTION STAGE		USE STAGE							END OF LIFE STAGE				
Raw material supply	Transport	Manufacturing	Transport from gate to site	Assembly/Installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction/demolition	Transport	Waste processing	Disposal	
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	
✓	✓	✓														

Environmental Impact Reduction

Percent change is not an appropriate method to represent changes in Ozone Depletion Potential, due to large differences in orders of magnitude between results.



Optimization Sources

The environmental impact reductions were due to operational improvements at the manufacturing plant (overall equipment efficiencies, reduced natural gas use, improved electricity use at overall plant) and the switch from secondary to primary data in modeling at key steps of the manufacturing process.

Interpretation

Utilizing the comparability criteria, the comparison is considered robust, with nearly all criteria identical or equivalent. Both Optimized and Reference EPDs are product-specific, utilize the same functional unit, cover the same scope and system boundaries, have equivalent data quality and data collection procedures, use the same LCI background database, software, and impact assessment methods, and have the same assumptions and calculations for allocation, cut-off rules, use phase, and end of life. The PCR versions differ, however, this is not seen as a critical difference as the version update (v3.2 to v4) was solely related to conformance pathways for EN15804:A2, which is not the impact assessment method used by the Optimized or Reference EPDs.





Comparability Criteria

Environmental Product Declaration

UL Environment Comparability Rating Results

Select as applicable; totals displayed on Summary front

Interpretation

- ● ● ● **Representativeness**
- ● ● ● **Scope**
- ● ● ● **System Boundaries**
- ● ● ● **LCI Background Data & LCA software**
- ● ● ● **Data Quality**
- ● ● ● **Impact Assessment**
- ● ● ● **Use Phase Calculations**
- ● ● ● **End of Life Assumptions**
- ● ● ● **Allocation Rules**
- ● ● ● **Cut-Off Rules**
- ● ● ● **Materials & Additional Information**
- ● ● ● **EPD Content & PCR Version**

Comparability Criteria Totals ● 11 ● 1 ● 0 ● 0

Robust Comparison

- ≥7 More than half of criteria are equivalent or identical for comparison
- ≤5 Less than half of criteria require additional interpretation for comparison
- 0 No criteria are flagged that warrant significant justification for comparison
- 0 No criteria are flagged that prevent comparison

Compare with Caution

- ≤5 Less than half of criteria are equivalent or identical for comparison
- ≥7 More than half of criteria require additional interpretation for comparison
- ≤1 One or no criteria are flagged that warrant significant justification for comparison
- 0 No criteria are flagged that prevent comparison

Ineligible for Comparison

- >1 More than one criteria are flagged that warrant significant justification for comparison
- ≥1 One or more criteria are flagged that prevent comparison

Results and interpretation are further explained in the Optimization Addendum provided at: https://spot.ul.com/main-app/products/detail/66cdf81d4238f88cb1b6c352?page_type=Products%20Catalog

Comparability Criteria

Representativeness

- If benchmark EPD is industry average, the compared product specific EPD is represented in the average
- If benchmark EPD is product specific, the compared product is equivalent
- Product specific EPD is not represented in industry average EPD or not equivalent to benchmark

Scope

- Identical functional units, product category definition/description and equivalent period of validity
- Equivalent functional units, product category definition/description, and period of validity
- Different functional units, product category definition/description, and/or different period of validity

System Boundaries

- Equivalent system boundaries with equivalent modules excluded
- Includes A1-A3 with identical use phase and EOL options
- Includes A1 - A3, no use phase, no EOL options

LCI Background Data & Software

- Consistent LCI background data and software
- Consistent LCI background data, different software
- Consistent software, different LCI background data
- Different LCI background data, different software

Data Quality*

- Equivalent data quality with equivalent data collection procedures
- Some equivalent data quality and data collection procedures
- Different data quality with different data collection procedures

*Quality refers to coverage, precision, completeness, representativeness, consistency, reproducibility, and sources

Impact Assessment Method

- Identical inventory and impact assessment categories, method & version
- Equivalent inventory and impact assessment categories, method & version
- Different inventory and impact assessment categories, method & version

Assumptions & Calculations

Use phase

- Identical use phase calculations and units
- Different use phase calculations and units

End of Life

- Equivalent end of life assumptions by disposal option
- Different end of life assumptions by disposal option

Allocation

- Equivalent choice of allocation method(s)
- Different choice of allocation method(s) with robust sensitivity analysis showing allocation choice affects results by <5%
- Different choice of allocation method(s) w/o sensitivity analysis

Cut-off Rules

- Identical application of cut-off criteria for inclusion of flows
- Different application of cut-off criteria with robust sensitivity analysis showing cut-off criteria affects results by <5%
- Different application of cut-off criteria without sensitivity analysis

Materials & Additional Information

- Equivalent provision of additional environmental information, declared materials and substances
- Different additional environmental information, declared materials and substances

EPD Content and PCR Version

- Equivalent EPD content, format, and reference PCR version number
- Different EPD content, format, and reference PCR version number

