EcoTech



EPD

Environmental Product Declaration

of multiple products based on a representative product in accordance with ISO 14025:2006

Programme	The International EPD® System, www.environdec.com
Programme Operator	EPD International AB
EPD Registration Number	xxxxxxx
Publication Date	xxxx-xx-xx
Valid Until	xxxx-xx-xx

For

EcoTech

From

Your Arbor Inc. (“Arbor”)

Programme Information

Programme	The International EPD® System EPD International AB Box 210 60 SE-100 31 Stockholm Sweden www.environdec.com info@environdec.com

Field	Details
Product Category Rules (PCR)	Rubber articles for footwear, registration number PCR 2021:04, version 1.0, UN CPC code: 3627
PCR review was conducted by	The Technical Committee of the International EPD® System. Chair of the PCR review:xxxx
Independent third-party verification of the declaration and data, according to ISO 14025:2006	☐ EPD process certification ☑ EPD verification
Third-party verification	xxxxx, Independent approved verifier
Procedure for follow-up of data during EPD validity involves a third-party verifier	☐ Yes ☑ No

The EPD owner has sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programs may not be comparable.

Company Information

Owner of the EPD	xxx
Contact	xxx
Description of the organisation	xxx
Product-related or management system-related certifications	xxx
Name and location of production site	xxx

Product Information

Product Name	TrailRunner V2
Product Identification	xxx
Customer Code	xxx
Product Description	Lightweight athletic shoe made with rubber, EVA sole, and cork insole, designed for trail and urban running.
UN CPC code	3627
Geographical Scope	Global

LCA Information

Declared Unit	A pair of soles, size 44 EU, weighing 0.685 kg
Reference Service Life	Not applicable. The LCA covers cradle-to-grave analysis, up to and including end-of-life.
Time Representativeness	The LCA covered 2023 data
Database(s) and LCA Software Used	Database: Ecoinvent 3.8 cut-off by classification, unit; Software: Arbor Platform

System Diagram	From raw materials to use and end-of-life stages were included in the analysis.
Allocation	The mass allocation criteria.
Description of System Boundaries	Cradle-to-grave
Excluded Lifecycle Stages	None
Name and Contact Information of LCA Practitioner	xxx
Additional Information	xxx

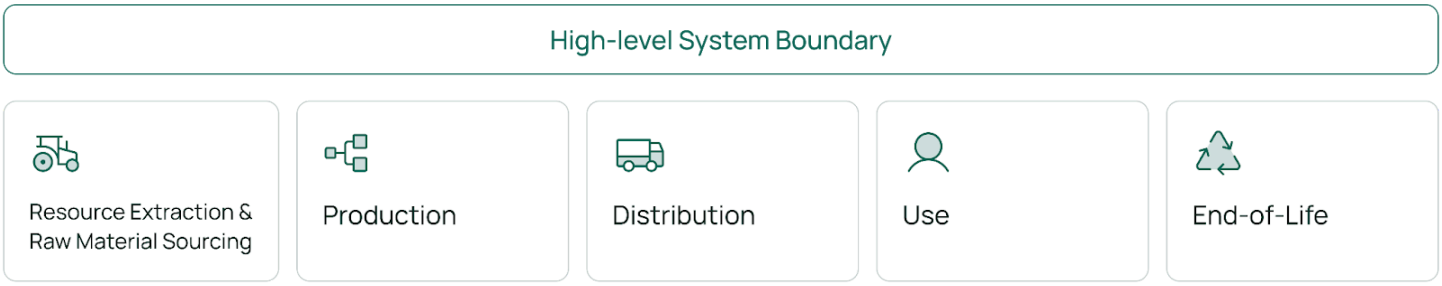


Figure 2: System Boundary

LCA Stage	Description
Resource extraction & raw material sourcing	Natural rubber harvested in Thailand and synthetic rubber derived from petroleum feedstocks in South Korea. EVA and PU sourced regionally. Textile lining includes recycled polyester (30% post-consumer).
Production	Assembly and molding carried out in Vietnam using semi-automated equipment. Electricity from grid (36% coal, 28% hydro, 18% gas, balance other). Water-based adhesives and injection-molded soles used.
Distribution	Finished products shipped via ocean freight to EU warehouses and then by truck to retailers across France and Germany. Primary packaging includes recycled cardboard box (85% recycled content).
Use	Intended for heavy-duty use in industrial settings. Assumes 18-month use period with regular cleaning (cold water rinse, no machine wash). No energy or water consumption allocated to the user stage.
End-of-Life	Collection and disposal in municipal solid waste stream. Allocation of impacts to landfilling (75%) and incineration with energy recovery (25%). No recycling or reuse assumed.

Content Information, Including Biogenic Carbon

Product Components	Mass (kg/UD)	Postconsumer Material Weight (%)	Biogenic Material (%)	Biogenic Material (kg C)
Upper - Rubber	0.250	20%	100%	45.00
Sole - EVA	0.200	0%	0%	0.00
Midsole - PU Foam	0.150	0%	0%	0.00
Laces - Polyester	0.020	30%	0%	0.00
Insole - Cork	0.050	0%	100%	9.00

Eyelets - Steel	0.010	60%	0%	0.00
Stitching - Nylon	0.005	0%	0%	0.00
Total Mass	**0.685**		**8%**	**54.00**

Product Components	Mass (kg/UD)	Postconsumer Material Weight (%)	Biogenic Material (kg C)
Shoe box - Recycled paper	0.200	29.20%	45.00
Tissue paper	0.020	2.92%	6.00
Hangtag - Cardboard	0.015	2.19%	4.50
Total Mass	**0.235**		**70.50**

Results

Potential Environmental Impact

Parameter	Unit	Upstream	Core	Downstream	Total
Global warming potential (GWP) – Fossil	kg CO_2 eq.	2.20E+00	1.20E+00	1.30E+00	**4.70E+00**
Global warming potential (GWP) – Biogenic	kg CO_2 eq.	1.00E-01	3.00E-02	2.00E-02	**1.50E-01**
Global warming potential (GWP) – Land use and transformation	kg CO_2 eq.	3.00E-02	1.50E-02	3.00E-02	**7.50E-02**
GWP Total	**kg CO_2 eq.**	**2.33E+00**	**1.25E+00**	**1.35E+00**	**4.93E+00**
Acidification potential (AP)	kg SO_2 eq.	2.10E-03	7.50E-04	6.00E-04	**3.45E-03**
Eutrophication potential (EP)	kg PO_4^{3-} eq.	3.80E-04	1.20E-04	9.00E-05	**5.90E-04**
Photochemical oxidant formation potential (POFP)	kg NMVOC eq.	1.70E-03	6.00E-04	5.00E-04	**2.80E-03**
Abiotic depletion potential – Elements	kg Sb eq.	8.00E-06	2.50E-06	1.00E-06	**1.15E-05**
Abiotic depletion potential – Fossil fuels	MJ, net calorific value	1.10E+01	3.80E+00	2.10E+00	**1.69E+01**
Water scarcity potential	m^3 eq.	2.40E-01	3.00E-01	4.50E-02	**5.85E-01**

Use of Resources

Parameter	Unit	Upstream	Core	Downstream	Total
Primary energy resources – Renewable					
Use as energy carrier	MJ, net calorific value	3.50E+00	1.20E+00	4.00E-01	5.10E+00
Used as raw materials	MJ, net calorific value	2.20E-01	3.00E-02	0.00E+00	2.50E-01
TOTAL	MJ, net calorific value	3.72E+00	1.23E+00	4.00E-01	5.35E+00
Primary energy resources – Non-renewable					
Use as energy carrier	MJ, net calorific value	7.00E+00	4.50E+00	2.50E+00	1.40E+01
Used as raw materials	MJ, net calorific value	1.90E+01	8.00E-01	0.00E+00	1.98E+01
Total	MJ, net calorific value	2.60E+01	5.30E+00	2.50E+00	3.38E+01
Secondary material	kg	1.10E-02	2.00E-03	1.00E-03	1.40E-02
Renewable secondary fuels	MJ, net calorific value	NA	NA	NA	NA
Non-renewable secondary fuels	MJ, net calorific value	NA	NA	NA	NA
Net use of fresh water	m^3	3.00E-02	1.50E-02	6.00E-04	4.56E-02

Waste Production

Parameter	Unit	Upstream	Core	Downstream	Total
Hazardous waste disposed	kg	1.20E-05	8.50E-06	1.30E-06	2.18E-05
Non-hazardous waste disposed	kg	1.05E-01	5.50E-02	1.80E-02	1.78E-01
Radioactive waste disposed	kg	4.10E-05	3.80E-06	2.10E-06	4.69E-05

Output Flows

Parameter	Unit	Upstream	Core	Downstream	Total
Components for reuse	kg	0	0	1.20E-02	1.20E-02
Material for recycling	kg	0	1.80E-02	2.00E-03	2.00E-02
Materials for energy recovery	kg	0	0	5.00E-03	5.00E-03
Exported energy, electricity	MJ	0	0	0	0
Exported energy, thermal	MJ	0	0	0	0

Additional Information

References

Ecoinvent. (2023). Ecoinvent Database Version 3.9.1.
https://ecoquery.ecoinvent.org/3.9.1/EN15804/search

Appendix

Disclaimer

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Thank you, EcoTech!

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