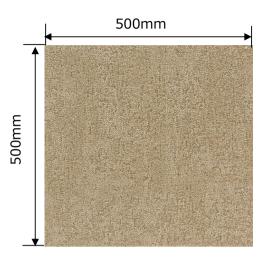
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KAWASHIMA SELKON TEXTILES CO.,LTD.

Tile Carpet ART BANK-7



TRANSLATION II

Functional unit

per piece

System boundary

■ final products □intermediate products

Manufacturing Stage, Construction Stage,

and Disposal/Recycling Stage

Main specifications of the product

Product Name	Tile Carpet ART BANK-7	
Product Model	TRANSLATION II	
Product Weight	1.28±0.2kg per piece	
Total Thickness	8.0±0.5mm	
Size	500mm×500mm	
	Pile: Nylon(Econyl)	
Materials	Backing: Recycled PVC Refine-Sheet	
	Primary Backing: Polyester	
Company	KAWASHIMA SELKON TEXTILES CO.,LTD.	
Main Manufacturing Site	Japan Carpet Co., Ltd.	
Estimated Usage Period	About 7years(depending on usage conditions)	

Company Information

Floor Covering Development Group Products Development Dept. TEL 06-6369-6088 FAX 06-6369-6228

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PCR number	PA-821000-AN-02	
PCR name	Tile Carpet	
Publication date	4/18/2022	
Verification date	4/6/2022	
Verification method	Product-by-product	
Verification#	JV-AN-22007	
Expiration date	4/5/2027	
PCR review was conducted by:		
Approval date	10/1/2019	
PCR review	Masayuki KANZAKI	

JR-AN-22007E

Third party verifier*

panel chair

Registration#

Yuuki SAKAMOTO

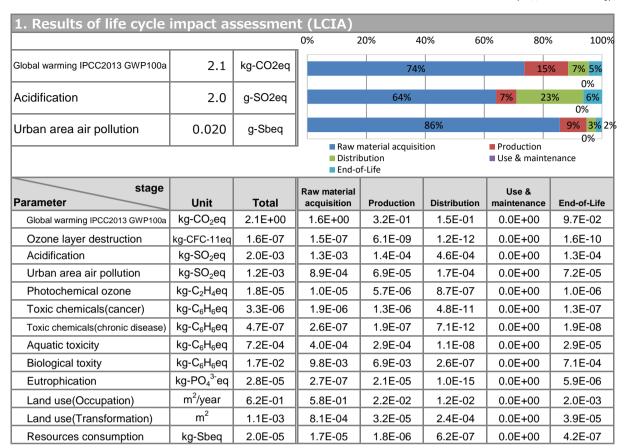
Independent verification of data & declaration in accordance with ISO14025

(Japan Environmental Management Association for Industry)

Registration number: JR-AN-22007E

stAuditor's name is stated if system certification has been performed.

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2. Life cycle inventory analysis (LCI)			
Parameter		Unit	
Non-renewable material resources	4.8E-01	kg	
Non-renewable energy resources	8.0E-01	kg	
Non-renewable energy resources	3.4E+01	MJ	
Renewable material resources	1.4E+00	kg	
Renewable primary energy	7.6E+00	MJ	
Consumption of freshwater	6.0E-03	m ³	
CO ₂ emission; from fossil resources, atmosphere, unspecified	2.0E+00	kg	
Energy resources, crude oil, 44.7MJ/kg, land area, and non-renewable energy resources	4.7E-01	kg	
Emission, volatile organic compounds, atmosphere, unspecified	1.5E-10	kg	

3. Material composition		
Material		Unit
Recycled nylon(econyl)	12	%
Primary Backing(polyester)	2	%
Polyvinyl chloride	8	%
Plasticizer	7	%
Calcium Carbonate	30	%
Quicklime	0	%
Non-Woven Glass Fiber	1	%
Recycled PVC	37	%
Packaging Material	3	%

4. Waste to disposal		
Parameter		Unit
Hazardous waste	_	kg
Non-hazardous waste	1.1E+00	kg

^{*}Data derived from LCA and not assigned to the impact categories of LCIA $\,$



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72%

-7.5E-01

kg-CO₂eq

Type III Environmental Declaration (EPD)
Registration number: JR-AN-22007E

5. Additional explanation

■ The transportation scenario was calculated according to PCR.

■ The use phase was not included in the calculation.

■ Direct effect on reduction of greenhouse gases (CO₂, etc):

① Direct effect of the tile carpet ART BANK-7 2.1E+00 kg-CO $_2$ eq ② Direct effect of the tile carpet (pattern: Milano Tweed) made of 7.9E+00 kg-CO $_2$ eq

virgin plastic material

※Registration number (2): JR-AN-21015E

**This product and the comparative product, the tile carpet made of virgin plastic (pattern: Milano Tweed), are different models, but although the amount of each component such as pile weight is slightly different, they were selected for comparison because they are all interior finishing materials with the same carpet tile function, have the same structure, and are shipped in large volumes in the product lineup.

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stage	11-24	Total®	Total@
Parameter	Unit	Total	Total®
Global warming IPCC2013 GWP100a	kg-CO₂eq	2.1E+00	7.9E+00
Ozone layer destruction	kg-CFC-11eq	1.6E-07	3.6E-07
Acidification	kg-SO₂eq	2.0E-03	4.5E-03
Urban area air pollution	kg-SO₂eq	1.2E-03	3.1E-03
Photochemical ozone	kg-C ₂ H₄eq	1.8E-05	2.8E-05
Toxic chemicals(cancer)	kg-C ₆ H ₆ eq	3.3E-06	4.0E-06
Toxic chemicals(chronic disease)	kg-C ₆ H ₆ eq	4.7E-07	5.6E-07
Aquatic toxicity	kg-C ₆ H ₆ eq	7.2E-04	8.6E-04
Biological toxity	kg-C ₆ H ₆ eq	1.7E-02	2.1E-02
Eutrophication	kg-PO ₄ 3-eq	2.8E-05	7.8E-06
Land use(Occupation)	m²/year	6.2E-01	6.0E-02
Land use(Transformation)	m ²	1.1E-03	1.9E-03
Resources consumption	kg-Sbeq	2.0E-05	4.2E-05

- This product uses ECONYL®, a recycled nylon, for surface piles and recycled PVC, a recycled backing, for the backing, making it possible to manufacture the product with reduced greenhouse gas emissions (CO₂, etc.). The reduction in greenhouse gas emissions (CO₂, etc.) when compared to tile carpet made of virgin plastic material ((2), piles: nylon 6,6, backing: virgin PVC/registration number: JR-AN-21015E) was calculated based on this feature.
- The direct effect was calculated as environmental load throughout the life cycle of each product (manufacturing, construction, and disposal/recycling stages).
- Indirect effect on reduction of greenhouse gases (CO₂, etc):
- \cdot Life cycle stages of the tile carpet ART BANK-7 (direct effect) 2.1E+00 kg-CO₂eq
- Life cycle stages of the tile carpet ART BANK-7 (indirect effect)

stage			
Parameter	Unit	Direct effect	Indirect effect
Global warming IPCC2013 GWP100a	kg-CO₂eq	2.1E+00	-7.5E-01
Ozone layer destruction	kg-CFC-11eq	1.6E-07	-1.6E-07
Acidification	kg-SO₂eq	2.0E-03	-8.1E-04
Urban area air pollution	kg-SO₂eq	1.2E-03	-6.0E-04
Photochemical ozone	kg-C₂H₄eq	1.8E-05	-4.2E-06
Toxic chemicals(cancer)	kg-C ₆ H ₆ eq	3.3E-06	-7.9E-07
Toxic chemicals(chronic disease)	kg-C ₆ H ₆ eq	4.7E-07	-1.1E-07
Aquatic toxicity	kg-C ₆ H ₆ eq	7.2E-04	-1.7E-04
Biological toxity	kg-C ₆ H ₆ eq	1.7E-02	-4.2E-03
Eutrophication	kg-PO ₄ 3-eq	2.8E-05	-3.7E-06
Land use(Occupation)	m²/year	6.2E-01	-3.7E-03
Land use(Transformation)	m ²	1.1E-03	-1.2E-04
Resources consumption	kg-Sbeq	2.0E-05	-1.4E-05

■ The indirect effect was calculated considering the effect of avoiding industrial waste disposal (reclamation) by using recycled nylon ECONYL® for piles and backing from used carpet tiles recycled through a recycling system for the backing, as well as the effect of avoiding the environmental load of raw materials used in the manufacture of new products. The recycled backing is used as backing for new tile carpet, and the pile part is recycled as an additive (forming inhibitor) for steel manufacturing.



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6-1. Supplementary environmental information

- Eco Mark certified product (certification number: 13 123 001)□
- \cdot Green Purchasing Law compliant product \square

Registration number: JR-AN-22007E

6-2. Regulated hazardous substances		
Substance	CAS No.	Reference to standards or regulations
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7. Assumptions of secondary data used

Uses ECONYL® (recycled nylon) from IDEA v2.1.3 and EcoLeaf Environmental Label Program registration data v1.10.

8. Remarks	
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- For data quantification, please refer to PCR and Rules on quantification and declaration.
- Comparative assertion is permitted only when Rules on quantification and declaration are satisfied. (Reference URL: https://ecoleaf-label.jp/regulation/)

Registration number: JR-AN-22007E