

**TOLI Corporation**

**Vinyl Loose Lay Tile "LOOSELAY 50 NW-EX"**



### Functional unit

Per square meter of vinyl flooring

### System boundary

☒ final products ☐ intermediate products

Manufacturing stage, construction stage, and  
waste recycling stage

### Main specifications of the product

Product Name: LOOSELAY 50 NW-EX

Weight: 8.6kg/m<sup>2</sup>

Overall Thickness: 5.0mm

Size: 500mm x 500mm 166.7mm x 1000mm

333.3mm x 500mm 1000mm x 1000mm

250mm x 1000mm

Materials: PVC, DOP, Calcium Carbonite, Additives,  
UV curable resin, non-woven glass fiber

Factory: TOLI Atsugi Factory

### Company Information

TOLI Corporation Product Planning Division

5-125 Higashi Arioka Itami Hyogo 6648610 Japan

Tel: +816-6494-6689

Registration#	JR-CC-24002E
PCR number	PA-242200-CC-01
PCR name	Resilient floor coverings
Publication date	July 1st, 2024
Verification date	May 15th, 2024
Verification method	Product-by-product
Verification#	JV-CC-24002
Expiration date	May 14th, 2029

### PCR review was conducted by:

Approval date	July 21st, 2023
PCR review panel chair	Masayuki Kanzaki (SuMPO)

### Third party verifier\*

outside inspector Tetsuya Okuyama

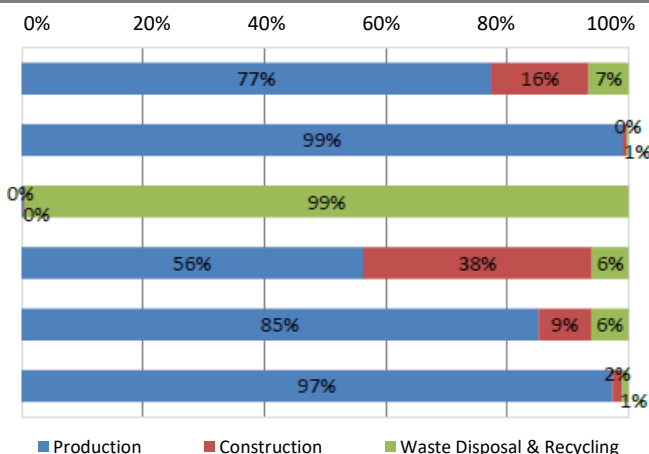
Independent verification of data & declaration in  
accordance with ISO14025

☐ internal ☒ external

\*Auditor's name is stated if system certification has been performed.

## 1. Results of life cycle impact assessment (LCIA)

Global warming IPCC2013 GWP100a	10	kg-CO <sub>2</sub> eq
Ozone layer destruction	620	μg-CFC-11eq
Eutrophication	77000	μg-PO <sub>4</sub> -eq
Acidification	13000	mg-SO <sub>2</sub> eq
Photochemical ozone	110	mg-C <sub>2</sub> H <sub>4</sub> eq
Resources consumption	370	mg-Sbeq



Parameter	stage	Unit	Total	Production	Construction	Waste Disposal & Recycling		
Global warming IPCC2013 GWP100a		kg-CO <sub>2</sub> eq	1.0E+01	7.8E+00	1.6E+00	6.6E-01		
Ozone layer destruction		μg-CFC-11eq	6.2E+02	6.1E+02	4.3E+00	1.6E+00		
Acidification		mg-SO <sub>2</sub> eq	1.3E+04	7.5E-03	5.0E-03	8.1E-04		
Urban area air pollution		kg-SO <sub>2</sub> eq	6.6E-03	4.2E-03	1.9E-03	4.5E-04		
Photochemical ozone		mg-C <sub>2</sub> H <sub>4</sub> eq	1.1E+02	9.1E+01	9.2E+00	6.6E+00		
Toxic chemicals(cancer)		kg-C <sub>6</sub> H <sub>6</sub> eq	1.9E-05	1.7E-05	1.3E-07	1.5E-06		
Toxic chemicals(chronic disease)		kg-C <sub>6</sub> H <sub>6</sub> eq	2.6E-06	2.4E-06	1.9E-08	1.3E-07		
Aquatic toxicity		kg-C <sub>6</sub> H <sub>6</sub> eq	3.9E-03	3.7E-03	2.9E-05	2.0E-04		
Biological toxicity		kg-C <sub>6</sub> H <sub>6</sub> eq	9.6E-02	9.0E-02	7.0E-04	5.2E-03		
Eutrophication		μg-PO <sub>4</sub> <sup>3-</sup> eq	7.7E+04	2.5E+02	1.5E+02	7.7E+04		
Land use(Occupation)		m <sup>2</sup> /year	7.4E-01	6.1E-01	1.2E-01	1.4E-02		
Land use(Transformation)		m <sup>2</sup> /year	1.5E-02	1.2E-02	2.4E-03	2.8E-04		
Resources consumption		mg-Sbeq	3.7E+02	3.6E+02	6.0E+00	4.0E+00		

## 2. Life cycle inventory analysis (LCI)

Parameter	Unit
Non-renewable material resources	4.4E+00 kg
Non-renewable energy resources	4.5E+00 kg
Non-renewable energy resources	2.0E+02 MJ
Renewable material resources	4.1E+00 kg
Renewable primary energy	1.9E+00 MJ
Consumption of freshwater	1.7E-02 m <sup>3</sup>
Emission, CO <sub>2</sub> ; from fossil fuel, air, unspecified	9.6E+00 kg
Resources, crude oil, 44.7MJ/kg, land, non-renewable energy	2.5E+00 kg
Emission, CO <sub>2</sub> ; VOC, air, unspecified	8.8E-10 kg

## 3. Material composition

Material	Unit
UV curable resin (UV coating)	0.30 %
Filler (UV coating)	0.04 %
Additives (UV coating)	0.02 %
PVC film (clear layer)	2.91 %
Printed film (printed layer)	1.11 %
PVC (backing)	1.72 %
DOP (backing)	2.67 %
Calcium carbonite (backing)	37.90 %
Additives (backing)	0.89 %
Recycled materials (backing)	24.44 %
Non-woven fiber glass (backir	0.91 %
Wastage after cutting (backin	25.05 %
Carton box	2.05 %
Total	100.00 %

#### 4. Waste to disposal

Parameter		Unit
Hazardous waste	-	kg
Non-hazardous waste	1.3E+01	kg
Treated MSW for landfill	0.0E+00	kg
Treated industrial waste for landfill	1.3E+01	kg

\*Data derived from LCA and not assigned to the impact categories of LCIA

#### 5. Additional explanation

Transport scenario was calculated based on PCR.

The use phase is not included in the calculation.

#### 6-1. Supplementary environmental information

#### 6-2. Regulated hazardous substances

Substance	CAS No.	Reference to standards or regulations

#### 7. Assumptions of secondary data used

IDEA v2.1.3 was used.

#### 8. Remarks

Revision Date : July 24st, 2025 Changed from EcoLeaf mark to SuMPO EPD mark.

- 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/>)