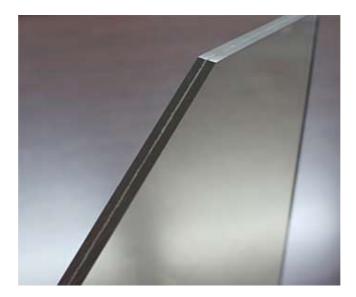


Japan EPD Program by SuMPO Sustainable Management Promotion Organization 14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan https://ecoleaf-label.jp/

# Neg Nippon Electric Glass Co., Ltd.

# Heat-resistant crystallized glass for fire door FireLite Plus<sup>®</sup>



## **Functional unit**

1m <sup>2</sup>					
System boundary					
□ final products ■intermediate products					
Raw material acquisition-Distribution-Production					
Main specifications of the product					
Production sites ; Otsu Plant, Shiga Takatsuki Plant					
Specifications ;					
Product thickness average : approx. 10mm					
Weigt per square meter ; apporox. 23kg					
Processing method ; Crystallization & Lamination					
method					
Main application ; Architectural					
Company Information					
Nippon Electric glass Co., Ltd.					

Consumer Glass Prodaucts Division, Production

Quality Assurance Department

https://www.neg.co.jp/en/inquiry/

Registration#	JR-BW-25002E				
PCR number	PA-171190-BW-02				
PCR name	Processd glass				
Publication date	1 April 2025				
Verification date	30 January 2025				
Verification method	Product-by-product				
Verification#	JV-BW-25002				
Expiration date	29 January 2030				
PCR review was	PCR review was conducted by:				
Approval date	1 September 2023				
PCR review	Ken Yamagishi				
panel chair	Sustainable Management Promotion Organization				
Third party verifier*					

#### Hiroyuki Nakamura

Independent verification of data & declaration in accordance with ISO14025

□internal

external

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

Registration number : JR-BW-25002E

### SuMPO EPD SuMPO EPD Type III Environmental Declaration (EPD)

Registration number : JR-BW-25002E

#### Japan EPD Program by SuMPO

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1. Results of life cycle im	pact asses	sment (LC	CIA)					
			0%	20% 4	0% 6	۵% ۵	30%	100%
Global warming IPCC2013 GWP100a	110	kg-CO2eq		62%		0%	37%	
Acidification	0.088	kg-SO2eq		62%		0%	38%	
Resources consumption	0.020	kg-Sbeq			99%			0% <mark>1</mark> %
			Raw r	naterial acquisitic	n 🗖 Dist	ribution	Product	ion
stage	Unit	Total	Raw material acquisition	Distribution	Production			
Global warming IPCC2013 GWP100a	kg-CO <sub>2</sub> eq	1.1E+02	6.6E+01	2.3E-01	3.9E+01			
Ozone layer destruction	kg-CFC-11eq	7.3E-05	5.3E-05	3.1E-12	2.0E-05			
Acidification	kg-SO <sub>2</sub> eq	8.8E-02	5.4E-02	2.9E-04	3.3E-02			
Urban area air pollution	kg-SO <sub>2</sub> eq	5.4E-02	3.2E-02	1.1E-04	2.2E-02			
Photochemical ozone	kg-C <sub>2</sub> H <sub>4</sub> eq	1.5E-03	8.8E-04	8.3E-07	6.0E-04			
Toxic chemicals(cancer)	kg-C <sub>6</sub> H <sub>6</sub> eq	4.6E-02	4.5E-02	1.1E-06	1.1E-03			
Toxic chemicals(chronic disease)	kg-C <sub>6</sub> H <sub>6</sub> eq	1.4E-02	1.4E-02	7.5E-07	1.3E-04			
Aquatic toxicity	kg-C <sub>6</sub> H <sub>6</sub> eq	1.9E+01	1.9E+01	3.7E-08	5.8E-02			
Biological toxity	kg-C <sub>6</sub> H <sub>6</sub> eq	4.8E+02	4.8E+02	6.1E-07	1.3E+00			

2.3E-04

2.9E+00

1.3E-02

2.0E-02

2.4E-12

6.1E-03

1.2E-04

9.6E-07

2. Life cycle inventory analysis (LCI)				
Parameter		Unit		
Non-renewable material resources	1.4E+01	kg		
Non-renewable energy resources	4.0E+01	kg		
Non-renewable energy resources	1.8E+03	MJ		
Renewable material resources	6.8E+00	kg		
Renewable primary energy	3.2E+02	MJ		
Consumption of freshwater	2.5E+00	m <sup>3</sup>		

kg-PO<sub>4</sub><sup>3-</sup>eq

m<sup>2</sup>/year

m²

kg-Sbeq

2.4E-04

3.2E+00

1.9E-02

2.0E-02

3. Material composition				
	Unit			
55	%			
38	%			
4	%			
4	%			
	38 4			

7.9E-06

2.5E-01

6.0E-03

2.6E-04

4. Waste to disposal				
Parameter		Unit		
Hazardous waste	0.0E+00	kg		
Non-hazardous waste.	1.1E+01	kg		
Treated MSW for landfill	4.1E-10	kg		
Treated industrial waste for landfill	1.1E+01	kg		

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

5. Additional explanation

The total energy use is 2126 MJ.

Eutrophication

Land use(Occupation)

Land use(Transformation)

Resources consumption



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6-1. Supplementary environmental information

We manufacture it at production sites that have received ISO 14001 certification (Otsu Plant and Takatsuki Plant in Shiga).

6-2. Regulated hazardous substances					
Substance	CAS No.	Reference to standards or regulations			
None					

7. Assumptions of secondary data used

We used the IDEA ver.3.1.0 data.

8. Remarks		
-		

- 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/resource/gpi/)

Registration number : JR-BW-25002E