



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-BS-22002E-B

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization

14-8, Uchikanda 1 chome, Chiyoda-ku, Tokyo Japan

<https://ecoleaf-label.jp/>



Your Dreams, Our Challenge

AGC Inc.

Pyrolytic Coated Glass



Functional unit

1ton

System boundary

final products intermediate products

Raw material acquisition-Distribution-Production

Main specifications of the product

Products ;

Stopsol, Sunergy

Planibel Pyrolytic Low-E

Production sites ;

Sidoarjo Factory (Indonesia)

Specifications ;

Thickness ; t=2~12mm

Area ; 33.3~200m²

Company Information

AGC Glass Asia Pacific

<https://agc-glassasia.com/contact-us/>

Registration#	JR-BS-22002E-B
PCR number	PA-171100-BS-01
PCR name	Flat glass
Publication date	27-Oct-2022
Verification date	20-Oct-2022
Verification method	Product-by-product
Verification#	JV-BS-22002
Expiration date	19-Oct-2027
PCR review was conducted by:	
Approval date	19-Aug-2022
PCR review	Ken Yamagishi
panel chair	Sustainable Management Promotion Organization

Third party verifier*

Yuki Sakamoto

Independent verification of data & declaration in accordance with ISO14025 and ISO21930

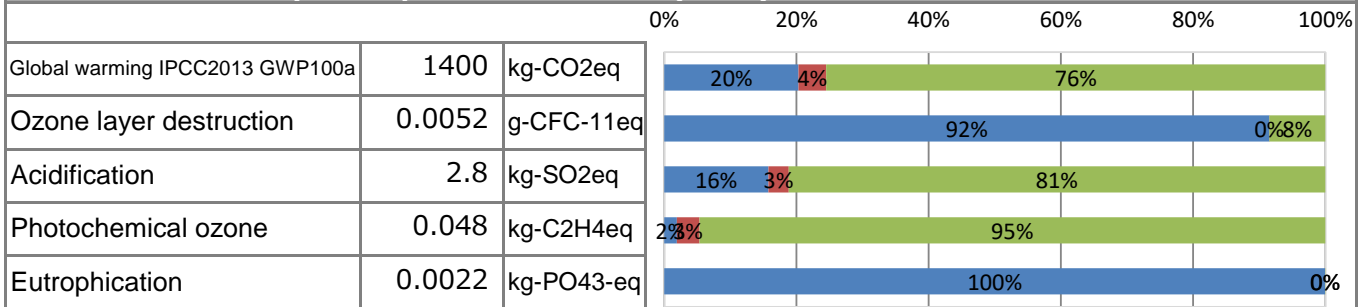
internal external

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

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1. Results of life cycle impact assessment (LCIA)



Parameter	stage	Unit	Total	Raw material acquisition	Distribution	Production
Global warming IPCC2013 GWP100a		kg-CO ₂ eq	1.4E+03	2.8E+02	5.7E+01	1.0E+03
Ozone layer destruction		g-CFC-11eq	5.2E-03	4.7E-03	3.8E-07	4.4E-04
Acidification		kg-SO ₂ eq	2.8E+00	4.4E-01	8.5E-02	2.2E+00
Photochemical ozone		kg-C ₂ H ₄ eq	4.8E-02	9.1E-04	1.6E-03	4.5E-02
Eutrophication		kg-PO ₄ ³⁻ eq	2.2E-03	2.2E-03	3.6E-13	3.0E-07

2. Life cycle inventory analysis (LCI)

Parameter	Unit
Non-renewable material resources	1.4E+03 kg
Non-renewable energy resources	1.9E+04 MJ
Renewable material resources	3.1E+02 kg
Renewable primary energy	5.2E+02 MJ
Consumption of freshwater	1.9E+00 m ³

3. Material composition

Material	Unit
Silica sand	44.4 %
Soda ash	13.4 %
Dolomite	15.7 %
Cullet	23.0 %
Others	3.4 %

4. Waste to disposal

Parameter	Unit
Hazardous waste	0.00E+00 kg
Non-hazardous waste.	1.7E+00 kg

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

5. Additional explanation

These data are an average of Stopspl, Surnegy and Planibel Pyrolytic Low-E, and do not represent data for individual products.



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6-1. Supplementary environmental information

The Products are manufactured in ISO14001 certified factories.

6-2. Regulated hazardous substances

Substance	CAS No.	Reference to standards or regulations
Sulfur dioxide	7446-09-5	Industrial Safety and Health Act
Cobalt monoxide	1307-96-6	Industrial Safety and Health Act
Dimethylformamide	68-12-2	Industrial Safety and Health Act
Butyltin Trichloride	1118-46-3	Industrial Safety and Health Act
Ethylene	74-85-1	Industrial Safety and Health Act

7. Assumptions of secondary data used

We use the IDEA v2.1.3 data

8. Remarks

revised 2025/1/17 (JR-BS-22002E-B):revised organization, contact site

revised 2023/2/24 (JR-BS-22002E-A):revised organization, contact site , added ISO21930 in independent verification of data & declaration as ISO accordance, corrected unit errors in LCIA and LCI information

- 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/>)

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