EcoLeaf
Type III Environmental Declaration (EPD)
Registration number： JR-BS-22002E-A

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

Asia General Division, Architectural Glass Asia Pacific Company, 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 type: Stopsol, Sunergy
Planibel Pyrolytic Low-E

Production sites: Sidoarjo Factory
(PT Asamimas Flat Glass Tbk)

Main thickness(unit : mm, t=thickness): t=2～12mm

Area: 33.3～200m^2

Company Information

Sustainable Management Initiatives Group,
Architectural Glass Asia Pacific Company, AGC Inc.
Tel： +81-3-5808-6604
https://agc-glassasia.com/

Registration#	JR-BS-22002E-A
PCR number	PA-171100-BS-01
PCR name	Flat glass
Publication date	10/27/2022
Verification date	10/20/2022
Verification method	Product-by-product
Verification#	JV-BS-22002
Expiration date	10/19/2027

PCR review was conducted by:

Approval date	19/8/2022
PCR review panel chair	Ken Yamagishi Sustainable Management Promotion Organizatic

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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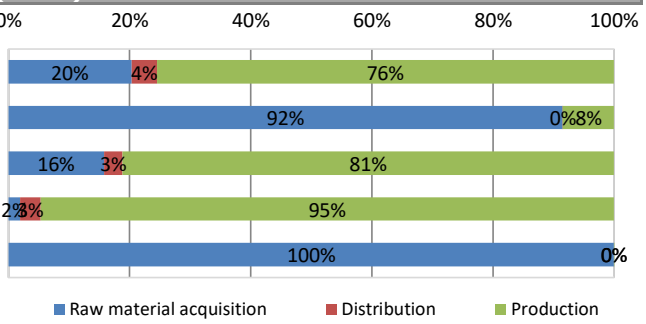
1. Results of life cycle impact assessment (LCIA)

Global warming IPCC2013 GWP100a	1400	kg-CO2eq
Ozone layer destruction	0.0052	g-CFC-11eq
Acidification	2.8	kg-SO2eq
Photochemical ozone	0.048	kg-C2H4eq
Eutrophication	0.0022	kg-PO43-eq



Parameter \ stage	Unit	Total	Raw material acquisition	Distribution	Production
Global warming IPCC2013 GWP100a	kg-CO_2eq	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_2eq	2.8E+00	4.4E-01	8.5E-02	2.2E+00
Photochemical ozone	kg-C_2H_4eq	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	m3

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 Stopsol, Sunergy 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

Changes from the previous version (registration number: JR-BS-22002E) are as follows.

Date of change : February 24, 2023

Reason for change

(1) Change in the organization name and contact information

(2) Add ISO21930 in independent verification of data & declaration as ISO accordace

(3) Correct 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/)