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

# FUJIFILM Corporation

# Digital Thermal Plate

**<Processing required with the solution/ Made in China> for Europe**

FUJIFILM
SUPERIA
Digital Thermal Plate

## Functional unit

Typical plate gauge g 0.24 mm per square meter ($m^2$)

## System boundary

■ final products □intermediate products

Raw material acquisition, Production, Distribution, Use & maintenance, End-of-Life

## Main specifications of the product

Model:

Please refer to the next page (Model: SUPERIA LH-PLE, etc.)

Applicable to:

Offset printing plates that have a developing process in a product group that uses a thermal exposure plate as an imaging method.

Main Product Composition:

-Substrate: Made from new aluminum ingots, with approximately 22.4% recycled aluminum content
-Plate gauges: 0.15 to 0.40 mm
-Photosensitive layer: All coating materials are regard as the functional resin
-Individual packaging: Outer box, inner packaging, and interleaf paper
-Developing process: The development solution used, under the standard conditions

| | |
|---|---|
| **Registration#** | JR-AR-24008C |
| **PCR number** | PA-937192-AR-05 |
| **PCR name** | Pre-Sensitized plates for lithographic printing |
| **Publication date** | 9/25/2024 |
| **Verification date** | 4/12/2024 |
| **Verification method** | Product-by-product |
| **Verification#** | JV-AR-24008 |
| **Expiration date** | 4/11/2029 |

## PCR review was conducted by:

| | |
|---|---|
| **Approval date** | 5/10/2023 |
| PCR review panel chair | Masayuki Kanzaki<br>Sustainable Management Promotion Organization |

## Third party verifier*

Takahiro Ato

Independent verification of data & declaration in accordance with ISO/TS14067

□internal ■external

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

## Company Information

FUJIFILM Corporation
Graphic Communications Division
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# Carbon Footprint of Products
# CFP Declaration

Registration number : JR-AR-24008C

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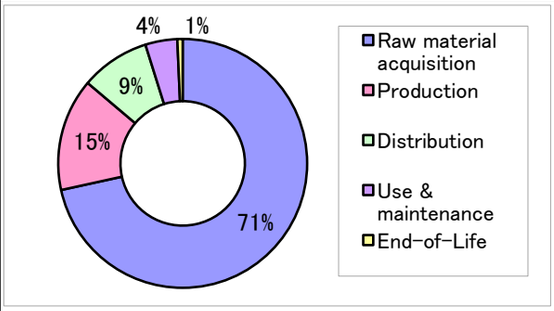
## 1. Quantification results, and contents of the declaration

**CFP quantification unit :**

| Parameter | | | Unit |
|---|---|---|---|
| **CFP Quantification results** | | **7.3** | **kg-$CO_2$eq** |
| Breakdown | Raw material acquisition | 5.2 | kg-$CO_2$eq |
| | Production | 1.1 | kg-$CO_2$eq |
| | Distribution | 0.65 | kg-$CO_2$eq |
| | Use & maintenance | 0.30 | kg-$CO_2$eq |
| | End-of-Life | 0.05 | kg-$CO_2$eq |
| **Value on CFP mark** | | **7.3** | **kg-$CO_2$eq** |
| **Unit for the value on CFP mark** | | Typical plate gauge 0.24 mm per square meter ($m^2$) | |

*Quantification results may slightly differ from the sum of the breakdown due to rounding of fractions.

## 2. Additional information




The calculation results are for CFP are based on a plate gauge of 0.24 mm. Please refer to Table 1 for CFP values for different plate gauges.
All the products in Table 2 belong to the category of Digital Thermal Plates are manufactured by the same method. The infrared laser exposure in the process of using the plate is also the same. The difference between the products is a minor difference in the composition (ratio) of the phenolic resin in the photosensitive layer. However, since "phenolic resin" is used as the basic unit for calculation (see PCR), the CFP value remains the same.

Table 1

| Plate gauge (mm) | $CO_2$eq ($kg/m^2$) |
|---|---|
| 0.15 | 5.2 |
| 0.20 | 6.4 |
| 0.24 | 7.3 |
| 0.30 | 8.7 |
| 0.40 | 11.0 |

Table 2

| Product name |
|---|
| SUPERIA LH-PA |
| SUPERIA LH-PJA |
| SUPERIA LH-PK |
| SUPERIA LH-PLA |
| SUPERIA LH-PLE |
| SUPERIA XP-L |

## 3. Supplementary environmental information

Produced in an ISO 9001 and ISO 14001 certified factory.
-ISO 9001:2015/JIS Q 9001:2015 JMI-0129 JQA
-ISO 14001:2015/JIS Q 14001:2015 JQA-E-80019 JQA

## 4. Interpretation

-Typical CFP values are based on a plate gauge of 0.24 mm per square meter ($m^2$) and with 22.4% recycled aluminum used as the raw material.
-$CO_2$eq emissions from the raw material stage accounted for the highest proportion, approximately 71% of the total lifecycle. This is due to the production of the main raw material, aluminum, and therefore, the reduction of $CO_2$eq emissions through the utilization of recycled aluminum is a significant factor[*1].
*1 The utilization of recycled aluminum has reduced $CO_2$eq emissions by approximately 48% compared to the use of all new aluminum ingots (CFP value of 14 kg-$CO_2$eq/$m^2$).
-Please note that the raw material usage and product manufacturing load are based on our data, and the data for new aluminum ingot manufacturing is based on the supplier's primary data, while the other data are general values.

## 5. Assumptions of secondary data used

IDEA ver. 3.1.0 are used.

## 6. 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/)
- The CFP only addresses the single impact category of climate change and does not assess other potential social, economic and environmental impacts arising from the provision of a product.