

4.

Printing-related Products

PCR Name	PCR ID
●Publicity printings & Printing products for business use····	PA-BS
●Publishing & Commercial printing (work in process)····	PA-AD
●PS plate for Lithographic printing··········	PA-AF

N.B. The PCR codes shown do not include the edition numbers.

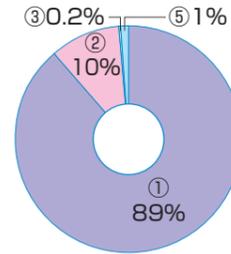
Note

- Out of the products which were given verification of their carbon footprints of products (CFP), those representative from each category (use) have been selected and introduced, focusing on products that were displayed in the 2011 Eco-Products exhibition. Regarding all the products, please refer to the list of products authorized to use the CFP label, at the back.
- The calculation coverage for carbon footprints has partly changed in FY2010 from that of FY2009. The Sales Process in the Transport/Sale Stage in FY2009 was eliminated in FY2010 as a tentative measure during the pilot project period.
- With regard to the lower section "Percentage of CO₂ emissions" for each product, an entry of "0%" in that section for a final product indicates that no CO₂ is emitted during the said process of that product. An entry of "-" for intermediate goods indicates that the said process is not included in the calculation coverage.

4. Printing-related Products

DNP

Company name	Dai Nippon Printing Co., Ltd	
Product name	Dai Nippon Printing Co., Ltd (DNP) leaflets (for Eco-Products 2010 distribution)	Final Product
PCR Name & ID	Publicity printings & Printing products for business use	PA-BS-01
Product Outline (Verified in FY2010)	Size: 200mm x 200mm, 6 pages, 4-color waterless offset printing, tri-folded, 5,000 copies printed, weight per copy: 15.5g	



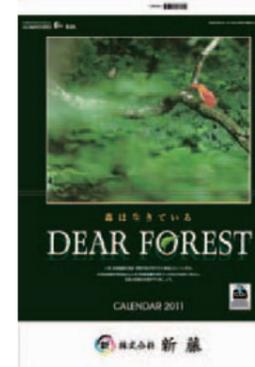
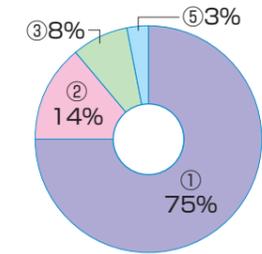
カーボンフットプリント試行事業
<http://www.cfp-japan.jp>
 検証番号: CV-BS01-002

- ▶ A leaflet aiming to easily explain carbon footprints mainly to elementary and junior high school children.
- ▶ Used non-wood paper (Reed paper containing 30% reed pulp), and biomass ink, and printed with a waterless offset printing method.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO ₂ /product)
Percentage of CO ₂ emissions	89%	10%	0.2%	0%	1%	152g

新 株式会社 新藤

Company name	Shindo & Co., Ltd.	
Product name	Corporate promotion calendar (A2 size, 7-pages)	Final Product
PCR Name & ID	Publicity printings & Printing products for business use	PA-BS-01
Product Outline (Verified in FY2010)	Paper: Recycled coated paper, Size: A2 Colors: 4 on one side, 7 pages Weight per calendar: 238g	



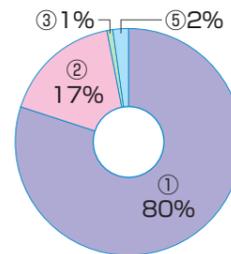
カーボンフットプリント試行事業
<http://www.cfp-japan.jp>
 検証番号: CV-BS01-006

- ▶ We use 100% recycled paper.
- ▶ Printing method employed that is compliant to green procurement as much as possible.
- ▶ 75% of CO₂ is emitted during the raw material acquisition stage, so future thought needs to be given to materials.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO ₂ /product)
Percentage of CO ₂ emissions	75%	14%	8%	0%	3%	773g

日本ビジネス出版

Company name	Japan Business Publishing Co., Ltd.	
Product name	Special issue of Kankyo Business (Environmental Business) featuring Eco-Products 2010	Final Product
PCR Name & ID	Publicity printings & Printing products for business use	PA-BS-01
Product Outline (Verified in FY2010)	A4 size, 12 pages, 4-color center-stapled, paper: "Tomoe River" paper, one book weighs 26.43g (calculated from the data: weight of 20,000 copies=528.63kg)	



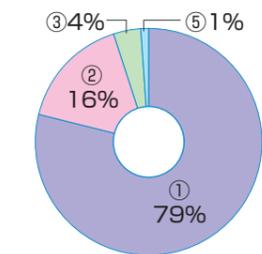
カーボンフットプリント試行事業
<http://www.cfp-japan.jp>
 検証番号: CV-BS01-005

- ▶ CO₂ emissions are kept down by using low weight ultra-thin Tomoe River paper.
- ▶ Consideration has been paid to the environment by using non-alcohol etching solution (with no IPA) in the dampening water used in offset printing.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO ₂ /product)
Percentage of CO ₂ emissions	80%	17%	1%	0%	2%	72.2g

CFJF

Company name	Carbon Footprint Japan Forum	
Product name	Carbon Footprint Japan Forum pamphlet	Final Product
PCR Name & ID	Publicity printings & Printing products for business use	PA-BS-01
Product Outline (Verified in FY2010)	A4 tri-fold (6 pages) printed in 4 colors Paper: FSC approved paper (matt coated) Calculated per copy on the basis of a 10,000 copy print run Weight for 10,000 copies: 51.6kg (paper and ink) Weight per copy: 5.16g	



カーボンフットプリント試行事業
<http://www.cfp-japan.jp>
 検証番号: CV-BS01-007

- ▶ With the objective of spreading, gaining acceptance for and utilizing carbon footprints that visualize CO₂ as an effective way to realize a low-carbon society, we support private businesses, municipalities and consumers groups etc. that enthusiastically involve themselves in carbon footprint activities.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO ₂ /product)
Percentage of CO ₂ emissions	79%	16%	4%	0%	1%	26.7g

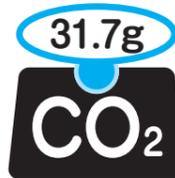
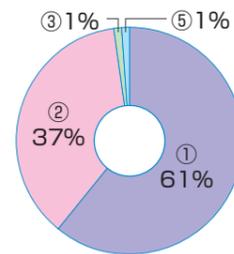
1. Food-related Products
 2. Lifestyle Products
 3. Clothing-related Products
 4. Printing-related Products
 5. Office-related Products
 6. Engineering- and Construction-related Products
 7. Other Industrial Products

4. Printing-related Products

KINYOSHA PRINTING CO., LTD.

<http://www.kinyosha.co.jp>

Company name	KINYOSHA PRINTING CO., LTD		
Product name	a leaflet for the music jacket gallery permanent exhibition	Final Product	
PCR Name & ID	Publicity printings & Printing products for business use	PA-BS-01	
Product Outline (Verified in FY2010)	Size: A4 (210mm x 297mm), 6.64g per leaflet, 2 pages including front and reverse side, colors: front: YMCK 4 colors, reverse: 2 colors, paper: cut-off 939mm x 636mm(kiku-zen size) coated paper, printed on 469mm x 636mm(kiku-han size) (Aurora Coat kiku-size) (weight per 1,000 sheets: 62.5kg), imposition: 4-up, copies printed: 4,800		



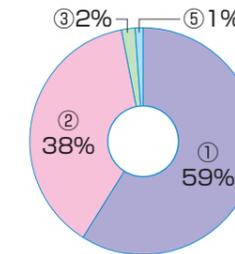
カーボンフットプリント試行事業
<http://www.cfp-japan.jp>
 検証番号: CV-BS01-008

- ▶ The leaflet is published regularly (every 3 months), and as the specifications are always the same it is possible to print the mark on all of the leaflets after they have been verified once.
- ▶ The calculations use the actual levels measured by an electricity-measuring device at our production facilities.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO ₂ /product)
Percentage of CO ₂ emissions	61%	37%	1%	0%	1%	31.7g

SNP 新日本印刷株式会社

Company name	Shinnihon Printing Inc.		
Product name	Eco-printing guide pamphlet	Final Product	
PCR Name & ID	Publicity printings & Printing products for business use	PA-BS-01	
Product Outline (Verified in FY2010)	A3 size, two-folded Paper: New V Matt (FSC certified) 157.0g/m ² Color: Color duplex printing Product quantity: 2,850 copies Figures shown are per copy		

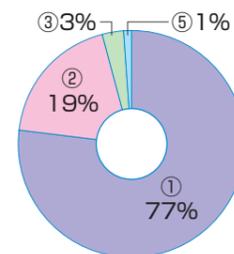


カーボンフットプリント試行事業
<http://www.cfp-japan.jp>
 検証番号: CV-BS01-010

- This publication was produced with consideration to the environment using waterless printing, Non-VOC ink, FSC certified paper and Green Printing (GP★★) certified.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO ₂ /product)
Percentage of CO ₂ emissions	59%	38%	2%	0%	1%	158g

Company name	Japan Waterless Printing Corporate Association		
Product name	Waterless printing suggestions pamphlet	Final Product	
PCR Name & ID	Publicity printings & Printing products for business use	PA-BS-01	
Product Outline (Verified in FY2010)	Size: 210mm x 297mm Production format: tri-folded (opens out to 297mm x 620mm) (Wrapped in Kraft paper in bundles of 100 copies)		

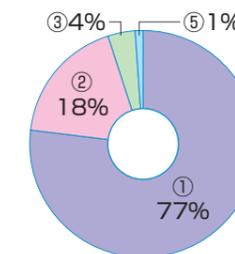


カーボンフットプリント試行事業
<http://www.cfp-japan.jp>
 検証番号: CV-BS01-009

- ▶ A publication printed with environmentally friendly waterless printing methods, in which dampening water that does not contain volatile organic compounds is used.
- ▶ We are involved in CFP as a part of our environmentally considerate activities.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO ₂ /product)
Percentage of CO ₂ emissions	77%	19%	3%	0%	1%	215g

Company name	JAPAN FEDERATION OF PRINTING INDUSTRIES		
Product name	"Paper Containers, Packaging and Wrapping(intermediate goods)" Product Category Rules (PCR) (Approved PCR ID:PA-BB-02) "Plastic Container and Packaging" Product Category Rules (PCR) (Approved PCR ID:PA-BC-02) Guideline in GHG emission calculation for printing business	Final Product	
PCR Name & ID	Publicity printings & Printing products for business use	PA-BS-01	
Product Outline (Verified in FY2010)	A4, 160 pages, adhesive binding, 424g, 600 copies printed		



カーボンフットプリント試行事業
<http://www.cfp-japan.jp>
 検証番号: CV-BS01-011

- The CO₂ emissions at the raw material acquisition and production stages were calculated using "Publishing and Commercial Printing (intermediate goods)" PCR (Approved PCR ID: PV-AD-02) Guideline in GHG emission calculation for printing business, which was published by the Japan Federation of Printing Industries.

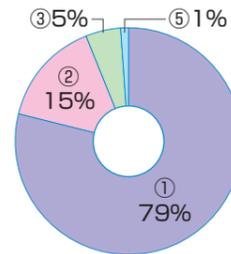
Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (kg-CO ₂ /product)
Percentage of CO ₂ emissions	77%	18%	4%	0%	1%	2.96kg

- 1. Food-related Products
- 2. Lifestyle Products
- 3. Clothing-related Products
- 4. Printing-related Products
- 5. Office-related Products
- 6. Engineering- and Construction-related Products
- 7. Other Industrial Products

4. Printing-related Products

SCREEN

Company name	Dainippon SCREEN MFG. Co., Ltd.	
Product name	Dainippon Screen Mfg. Product Catalog (A4 size, 4pages)	Final Product
PCR Name & ID	Publicity printings & Printing products for business use	PA-BS-01
Product Outline (Verified in FY2011)	Size: A4 (210mm × 297mm), 4 pages Color: 4-color duplex printing, paper: A2 coated 127.9g/m ² Product quantity: 4,030 copies (16.1g per copy)	



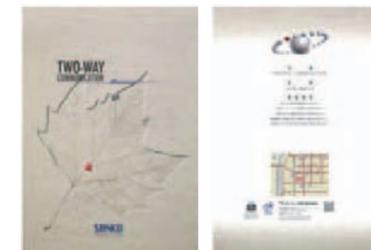
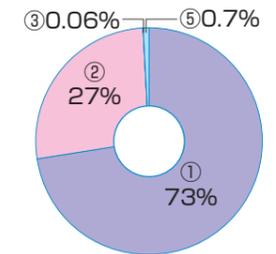
CO₂の「見える化」
カーボンフットプリント
<http://www.cfp-japan.jp>
検証番号：CV-BS01-014

- ▶ Implemented in order to visualize the CO₂ emissions generated in the production of our company's catalog.
- ▶ We sought to achieve a versatile means of operation in which certification is obtained for specifications (size, page numbers, print run etc.) rather than on an individual catalog basis.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO ₂ /product)
Percentage of CO ₂ emissions	79%	15%	5%	0%	1%	83.2g

S サンコー印刷 株式会社

Company name	Sanko Printing Co.,Ltd.	
Product name	Sanko Printing Co.,Ltd. Company Profile.	Final Product
PCR Name & ID	Publicity printings & Printing products for business use	PA-BS-01
Product Outline (Verified in FY2011)	A4, 6 pages, tri-folded, offset printing Quantity: 1,000 copies printed Weight per copy: 29.6g	



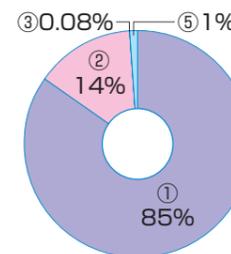
CO₂の「見える化」
カーボンフットプリント
<http://www.cfp-japan.jp>
検証番号：CV-BS01-027

- ▶ As emissions at the raw materials acquisition stage are comparatively large, acquisition methods are very important.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO ₂ /product)
Percentage of CO ₂ emissions	73%	27%	0.06%	0%	0.7%	256g

TOPPAN

Company name	Toppan Printing Co., Ltd.	
Product name	TOPPAN SOLUTION BOOK (For Eco-Friendly Business)	Final Product
PCR Name & ID	Publicity printings & Printing products for business use	PA-BS-01
Product Outline (Verified in FY2011)	Size: A4 (210mm × 294mm), 20 pages, weight per copy: 66.8g Specifications: Center-stapled, 3,000 copies produced	



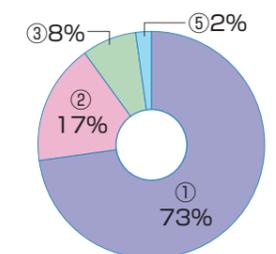
CO₂の「見える化」
カーボンフットプリント
<http://www.cfp-japan.jp>
検証番号：CV-BS01-016

- ▶ As the CO₂ emissions deriving from paper are fairly high in printed matter, we promote reductions in the amount of wasted print paper by improving production efficiency, and reductions in the amount of energy used by energy saving activities.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO ₂ /product)
Percentage of CO ₂ emissions	85%	14%	0.08%	0%	1%	333g

FUJIFILM

Company name	FUJIFILM Graphic Systems Co., Ltd	
Product name	FFGS ECONEX XP Brochure (A4 three-fold)	Final Product
PCR Name & ID	Publicity printings & Printing products for business use	PA-BS-01
Product Outline (Verified in FY2011)	Size: A4 (210mm × 297mm), product weight: 29.34g, three-folded format Paper: Shiroku-size matt coated 135kg, colors: duplex four-color process printing, thick film printing and clear coating Quantity: 5000 copies printed	



CO₂の「見える化」
カーボンフットプリント
<http://www.cfp-japan.jp>
検証番号：CV-BS01-028

- ▶ By displaying the CFP mark on our digital thermal plate pamphlets Fujifilm, currently the only company conducting CFP labeling in printing materials, became involved in this pilot project in order to positively advertise its environmental responses, and contribute to improving awareness about the CFP system.

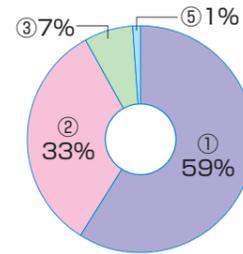
Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO ₂ /product)
Percentage of CO ₂ emissions	73%	17%	8%	0%	2%	128g

- 1. Food-related Products
- 2. Lifestyle Products
- 3. Clothing-related Products
- 4. Printing-related Products
- 5. Office-related Products
- 6. Engineering- and Construction-related Products
- 7. Other Industrial Products

4. Printing-related Products

KOMORI

Company name	KOMORI CORPORATION	
Product name	Komori Group Environmental and Social Responsibility Report 2011	Final Product
PCR Name & ID	Publicity printings & Printing products for business use	PA-BS-01
Product Outline (Verified in FY2011)	A4 size (210 × 297mm), weight: 58.5g per copy, center-stapled (in two places), 16 pages, 4-color, 3,000 copies produced	



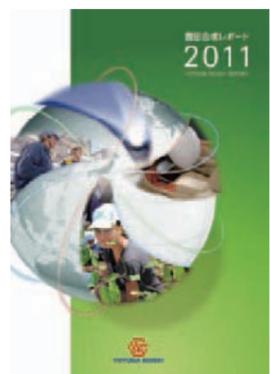
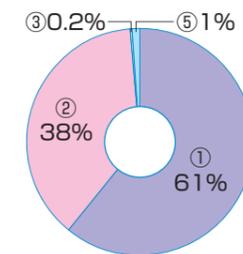
CO₂の「見える化」
カーボンフットプリント
<http://www.cfp-japan.jp>
検証番号：CV-BS01-029

- ▶ Emissions at the raw materials acquisition stage are large.
- ▶ Environmentally friendly vegetable oil inks are used.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO ₂ /product)
Percentage of CO ₂ emissions	59%	33%	7%	0%	1%	399g

TOYODA GOSEI

Company name	TOYOTA GOSEI CO.,LTD	
Product name	TOYOTA GOSEI REPORT 2011	Final Product
PCR Name & ID	Publicity printings & Printing products for business use	PA-BS-01
Product Outline (Verified in FY2011)	Size: A4, 56 pages + 2-page questionnaire (210mm × 297mm), notch bound Paper: New V Matt Kiku size (939mm × 636mm), 93.5kg (157.0g/m ²), 48.5kg (81.4g/m ²) Color: 4-color cover, 4-color reverse Quantity: 3,700 copies produced at a weight of 162g per copy	



ライフサイクル全体のCO₂排出量
CO₂の「見える化」
カーボンフットプリント
<http://www.cfp-japan.jp>
検証番号：CV-BS01-031

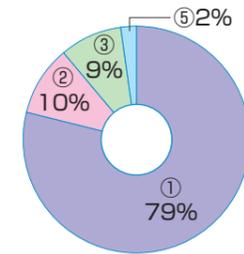
We convert the GHG emissions generated throughout the life cycle "from raw materials acquisition to disposal and recycling" under the carbon footprint system pilot project to the amount of CO₂, and calculate and display those emissions.

- ▶ The publication as produced using FSC certified paper, Non-VOC ink and waterless printing. We also made very possible attempt to reduce unnecessary packaging materials at the transport stage.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO ₂ /product)
Percentage of CO ₂ emissions	61%	38%	0.2%	0%	1%	895g

TOYO INK GROUP

Company name	Toyo Ink SC Holdings Co.,Ltd.	
Product name	Toyo Ink Group Social & Environmental Report 2011	Final Product
PCR Name & ID	Publicity printings & Printing products for business use	PA-BS-01
Product Outline (Verified in FY2011)	Weight per copy: 177g (main text A4 size, 52 pages + one-page questionnaire) Offset 4-color printing, center-stapled 8,000 copies printed	



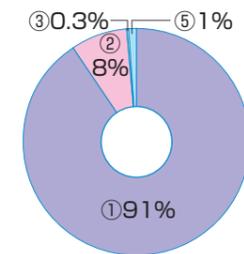
CO₂の「見える化」
カーボンフットプリント
1部あたり
<http://www.cfp-japan.jp>
検証番号：CV-BS01-032

- ▶ Toyo Ink Group seeks to provide environmentally friendly products.
- ▶ The report uses rice inks that lead to less waste through local production for local consumption, and FSC certified paper in order to conserve forestry resources.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO ₂ /product)
Percentage of CO ₂ emissions	79%	10%	9%	0%	2%	518g

SUN-A

Company name	SUN-A Printing Co.,Ltd.	
Product name	SUN-A LOHAS Printing Leaflet	Final Product
PCR Name & ID	Publicity printings & Printing products for business use	PA-BS-01
Product Outline (Verified in FY2011)	A4, 16 pages, 4-color offset printing, center-stapled 1,000 copies produced Weight: 53g per copy	



CO₂の「見える化」
カーボンフットプリント
<http://www.cfp-japan.jp>
検証番号：CV-BS01-033

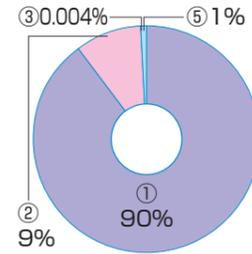
- Visualization of CO₂ from printed matter
- Environmentally considerate raw materials and printing methods are used.
- ▶ Paper is FSC certified.
 - ▶ Ink is rice ink.
 - ▶ Waterless printing is employed.
- The percentage of paper-related emissions is large so care is needed in selecting the thickness of the paper.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO ₂ /product)
Percentage of CO ₂ emissions	91%	8%	0.3%	0%	1%	287g

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4. Printing-related Products

Company name	Shinnihon Kogyo Co.,Ltd	
Product name	Shin Nihon Kogyo co.,Ltd Comapany Profile (for recruiting)	Final Product
PCR Name & ID	Publicity printings & Printing products for business use	PA-BS-01
Product Outline (Verified in FY2011)	A4 tri-folded, 4-color duplex printing Paper: matt coated, product weight: 28g, 800 copies printed	



291g
CO₂

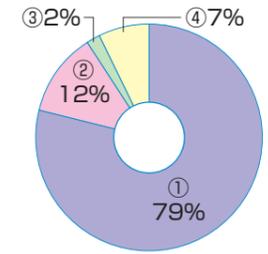
CO₂の「見える化」
カーボンフットプリント
<http://www.cfp-japan.jp>
検証番号：CV-BS01-034

- ▶ We kept the wrapping simple as 90% of emissions derive from raw material acquisition.
- ▶ The print run was relatively small so we eliminated emissions through storage innovations.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO ₂ /product)
Percentage of CO ₂ emissions	90%	9%	0.004%	0%	1%	291g

FUJIFILM

Company name	FUJIFILM Corporation	
Product name	Digital Thermal Plate (with development process)	Final Product
PCR Name & ID	PS plate for Lithographic printing	PA-AF-02
Product Outline (Verified in FY2009)	Thickness: 0.24mm GHG emissions per square meter of individually wrapped product (including wrapping materials and inserts) There is a development process at the usage stage	



0.24mm 厚
8.85kg/m²
CO₂

Thickness (mm)	CO ₂ (Kg/m ²)
0.15	6.42
0.20	7.77
0.24	8.85
0.30	10.5
0.40	13.2

カーボンフットプリント試行事業
<http://www.cfp-japan.jp>
検証番号：CV-AF-003

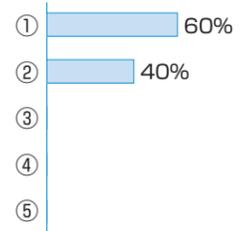
N.B. The carbon footprint labeling is the thickness of 0.24mm. Please refer to the list for carbon emission for each thickness.

- ▶ This PS plate recycles the chips generated in the production process into the same PS plate.
- ▶ This recycling effort has led to a 6% reduction in GHG emissions compared to when virgin metals are used. (FY2008 figures.)

Process	① Acquisition of raw materials	② Production	③ Transport/sales	④ Use/maintenance	⑤ Disposal/recycle	Total amount (kg-CO ₂ /product)
Percentage of CO ₂ emissions	79%	12%	2%	7%	0%	8.85kg / m ²



Company name	Sun Messe Co.,Ltd	
Product name	Brochure (two-fold) A4, 6C/4C, 5000copies	Intermediate Goods
PCR Name & ID	Publishing & Commercial printing (work in process)	PA-AD-02
Product Outline (Verified in FY2011)	Ordinary two-fold brochure	



CO₂ : 425kg
(原材料調達段階から
生産段階まで)

CO₂の「見える化」
カーボンフットプリント
<http://www.cfp-japan.jp>
検証番号：CV-AD02-010

- ▶ In conjunction with customer needs to conduct carbon footprint initiatives by printed materials, as a very typical sample we applied for versatile printed matter as intermediate goods. By doing so, we will make a formula for our carbon footprint products and deliver them to customers.
- ▶ We used an environmentally considerate press plate in the raw materials acquisition process and kept CO₂ emissions down to 10% less than usual.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (kg-CO ₂ /product)
Percentage of CO ₂ emissions	60%	40%	—	—	—	425kg

1. Food-related Products

2. Lifestyle Products

3. Clothing-related Products

4. Printing-related Products

5. Office-related Products

6. Engineering- and Construction-related Products

7. Other Industrial Products

5.

Office-related Products

PCR Name	PCR ID
●Writing Instruments	PA-AS
●Paper Products for stationery	PA-AZ
●File/Binder	PA-AR
●Office Furniture	PA-AK
●Broadly-applicable PCR(Energy-using Consumer Goods) ...	PA-BQ
●IT Equipments	PA-CI
●Teleconference Systems using Interactive White Board...	PA-BI
●ICT Hosting Service of Cloud Service Provider ...	PA-AX
●Application Service	PA-CT

N.B. The PCR codes shown do not include the edition numbers.

Note

- Out of the products which were given verification of their carbon footprints of products (CFP), those representative from each category (use) have been selected and introduced, focusing on products that were displayed in the 2011 Eco-Products exhibition. Regarding all the products, please refer to the list of products authorized to use the CFP label, at the back.
- The calculation coverage for carbon footprints has partly changed in FY2010 from that of FY2009. The Sales Process in the Transport/Sale Stage in FY2009 was eliminated in FY2010 as a tentative measure during the pilot project period.
- With regard to the lower section "Percentage of CO₂ emissions" for each product, an entry of "0%" in that section for a final product indicates that no CO₂ is emitted during the said process of that product. An entry of "-" for intermediate goods indicates that the said process is not included in the calculation coverage.