

# ENVIRONMENTAL PRODUCT DECLARATION



In accordance with ISO 14025 for:

## **Cleaning trolley for professional use “TOP-DOWN - MA2606701U000”**

**Filmop International S.r.l.**

<b>Programme:</b>	The International EPD <sup>®</sup> System <a href="http://www.environdec.com">www.environdec.com</a>
<b>Programme operator:</b>	EPD International AB
<b>EPD registration number:</b>	S-P-01020
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<b>Classification product group:</b>	UN CPC 4993
<b>Geographical scope:</b>	Global





Filmop International: an Italian company that has been present in the professional cleaning market for over 30 years

**Filmop** was founded in the early 1970's as a company specialized in manufacturing of manual cleaning equipment for professional use.

Located in the main production areas in the North East of Italy, it is a leading company in the cleaning sector and a reliable partner for thousands of professional people who operate in this market, proud to develop "**Made in Italy**" trademark all over the world. This is why the company has always designed, planned and produced its own products only and exclusively in Italy.

It has a plant of about 30,000 square meters, including warehouses for storage of finished and semi-manufactured products, administration and commercial offices, marketing, production and assembly departments and a laboratory for research and development.

Today Filmop International exports to over 80 countries worldwide with the maximum speed, reliability and efficiency. It has a French and an American branch (since 1997 and since 2004 respectively).



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## A green-centred History

Designing and actualizing the best cleaning systems, focusing on quality and innovation in each project while respecting this environment: this has been Filmop's philosophy since the early 70's, guiding us toward a clear path of action centred on environmental sustainability. Many initiatives confirm the company's commitment to sustainability, with a series of tangible and certified results: a constant investment in designing products taking into consideration their environmental impact; **ISO 14001** and **EU Ecolabel** environmental certifications; recycled raw materials; self-produced solar-powered textile production; compliance with **REACH** standard; wide range of recyclable products.



## Filmop Certifications

Concerning the corporate responsibility, since 2000 Filmop has been certified according to standard **UNI EN ISO 9001**, since 2011, according to environmental standard **UNI EN ISO 14001**, and since 2006 it meets the **BRC** requirements for "**GLOBAL STANDARD CONSUMER PRODUCTS**", a product hygiene control and safety management system.





## A pioneering decision: Plastic Second Life

Filmop has pushed the boundaries even more: in 2012, it has been the first Italian company in the cleaning equipment field to obtain the “**PSV - Second Life Plastics**” certification, issued by the Institute for Recyclable Plastics Promotion. It is the first Italian and European product environmental certification, which guarantees and highlights the products produced with recyclable plastics. This is an important recognition of Filmop's commitment to seeking solutions aimed at minimizing the products' environmental impact, while guaranteeing a high quality standard.

## The latest “achievement”: the ECOLABEL brand

In 2015 Filmop has obtained the important **EU Ecolabel** certification for Rapido microfiber cloths line and in 2016 for **RAPIDO SUPER** line, which enhances and replaces the old line.

**ECOLABEL** is the official brand of the European Union, which rewards products with low environmental impact, distinguishing them on the market and from competitors.





## ALPHA trolleys

**MADE IN ITALY**

**Alpha trolleys** with **Top-Down buckets** are innovative multipurpose trolleys, designed to meet all highly hygienic needs, thanks to their modularity and to the wide range of accessories which have been designed over time to meet the worldwide user's needs. Today Alpha range can count on endless trolley configurations, starting from basic components specially combined.

Alpha line offers several washing systems, such as Mop pre-soaking system, that is the preventive impregnation of the cloths in special places; this system guarantees an excellent cleaning result and control of cross-contamination and costs.

Since 2013 these trolleys have been certified "Plastic Second Life", as they are made of recycled plastic materials, according to the Green Public Procurements environmental policies.



### TAYLOR-MADE TROLLEY WITH ENDLESS SOLUTIONS

- Modular
- Complete range of components and accessories to create your customized trolley
- From the most compact to the most equipped trolley to meet any space requirement
- Made in Italy quality

### ECO-FRIENDLY PRODUCT

- Certified "Plastic Second Life"
- Made in Polypropylene, thus easily recyclable

### MODERN DESIGN AND CUSTOMIZABLE

- Soft lines and accurate design offer an elegant product and pleasing to the eye
- Each compartment of the trolley can be closed by means of side walls or doors to hide the content for a better safety and a well organized trolley
- The new plastic doors and walls can be customized with special designs, pictures/images or personal trademarks on request

### SAFE

- Alpha line assures a total safety, being any cleaning tool or chemical product stocked into a completely closed trolley
- Intelligent locking system: one universal key

### ERGONOMIC

- Light and easy to move
- With "Hush" system for a soft and silent closing of the cover
- With special rubber wheels
- Designed to reduce bendings

### 100% SPACE

- All you need for a complete cleaning is near-at-hand
- Each single detail has been especially designed to avoid any waste of space
- Maximum capacity and organization with the minimum possible overall size

### HYGIENIC

- The vertical frames keep separate the collection compartment from the storage and mopping ones
- Easy to clean thanks to its round and smooth surfaces





Impact quantification and the following **EPD** communication have been developed in accordance with standard **UNI EN ISO14044:2006** on **LCA** and **PCR** for professional cleaning trolleys, **PCR 2008:07** version 2.2 "Cleaning trolleys for professional use" of **THE INTERNATIONAL EPD® SYSTEM**.

The product under study is a professional cleaning trolley ideal for cleaning hospital environments. In particular, this trolley is the "**Top-down MA2606701U000**" model.

We specify that:

- final results are presented per declared unit and are not related to the lifetime of the product
- final results of products with different lifetime cannot be directly compared

The LCA study is a "cradle-to-grave" type of study, and thus it involves all the different life-cycle phases, from the extraction of raw materials used in the production process, to the end-of-life product disposal. As established by the PCR, on which this study is based, the life cycle and its boundaries, is divided into three main modules: upstream, core and downstream.

The upstream module includes the extraction process and transport of the raw materials used to produce the different trolley components, including ancillary raw materials (e.g. paint) and the energy consumption resulting from third-party component moulding processes.

The core module includes transport of third-party moulded components to Filmop facility, its energy and water consumption, the waste produced and the primary packaging production.

The downstream module includes transport of the finished product from the production site to the customer's facility, the trolley use and end of life and the primary packaging end of life.

Apart from including the inputs and outputs above, the following provisions apply to the core module:

- processing of production equipment, construction works and other equipment are not included.
- Business trips, staff commuting trips and research/development activities are not included.

In particular, the "**TOP-DOWN – MA2606701U000**" trolley is mainly made with recyclable materials (approx. 90% of the total weight of the trolley), except for the wheels.

In standard use conditions, the trolley has an average life of six years, after which it must be completely replaced. Concerning its maintenance, based on historical data, there are no significant data related to spare parts request.

At the end of the trolley lifecycle, this study has considered the cleaning trolley to be disposed/recovered according to the distribution market.

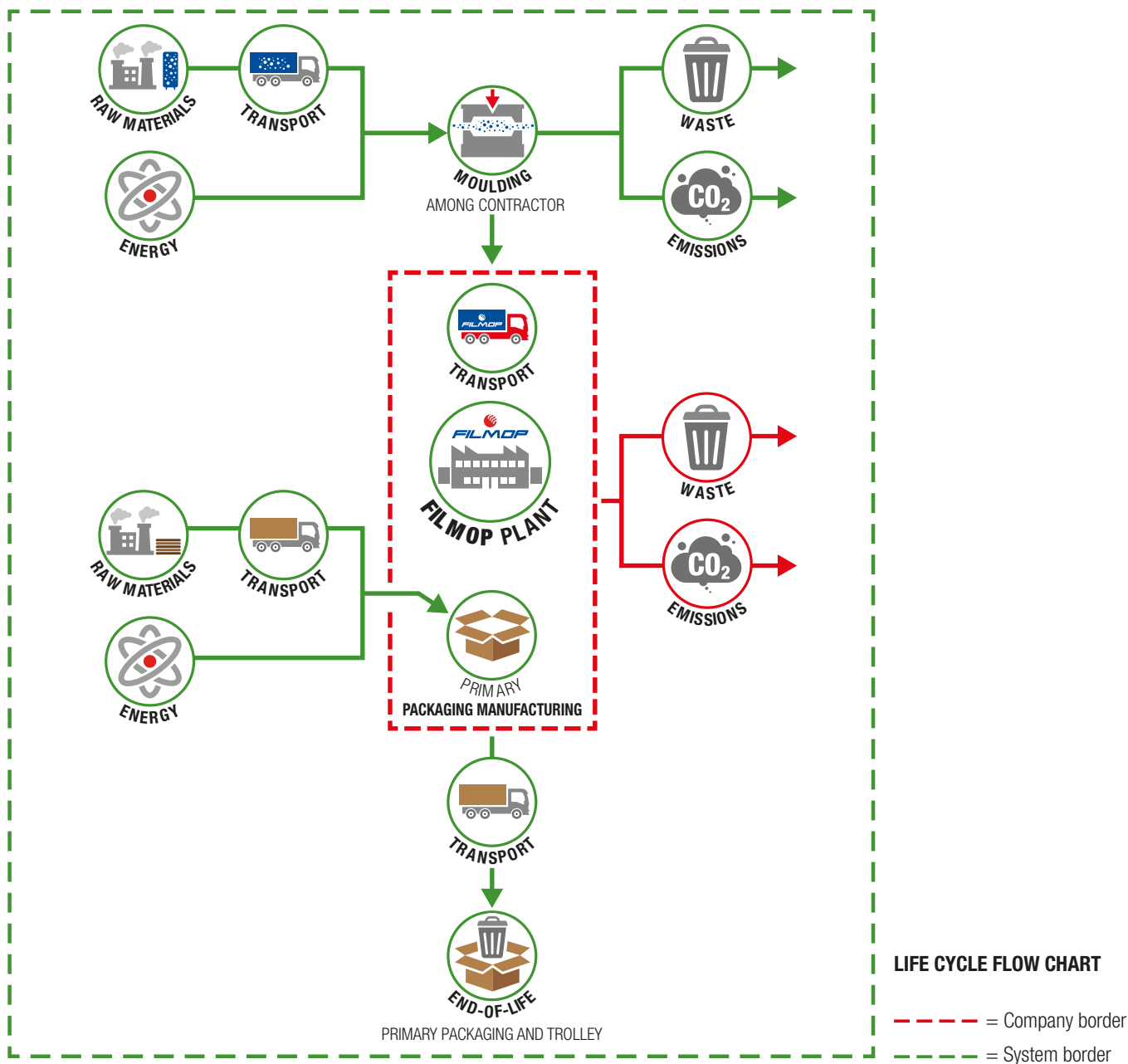
In particular, from the analysis performed to identify the most representative methods for the end of life of the product under study, we found that:

- the global rate of paper recovery, according to an article in the Pulp & Paper International (PPI), based on the RISI of 2012, is 57%. This article assumes that from 2012 to 2016 there was definitely an increase in the recovery rate, but as a precaution it was decided to keep the same that was indicated in the article.

For Europe, based on the Eurostat statistics, the percentage of paper and cardboard recovery is equal to 79,20%, while in Italy, according to Comieco report, it is equal to 89%.

- For plastic, according to an article in the World Watch Institute, it is estimated that between 22% and 43% of the plastic used in the world ends up in landfills. Therefore, it was considered worldwide an average figure for the disposal of 32,5%. At European level, however, according to Eurostat statistics, the recovery rate is 69,2%, while for Italy, according to Corepla, 86,2% is recovered.





Concerning the raw materials, the geographic boundaries include mainly Italy and Europe, while the finished products are mainly shipped to Italy, Europe and Arabic countries.

The production site is the Filmop plant located in Villa del Conte (PD) as far as trolley assembling is concerned, while moulding of the individual components is carried out by suppliers and, in particular: FA.ZI.FA. Srl, COPLAST Srl, IPA SpA, Cebora SpA, GEFA Snc.

All data concerning assembling and moulding are data that have been collected directly from the production sites above. Cleaning trolley by FILMOP facility requires only a manual assembly of the wheels, that are fixed to the base and the insertion, manual as well, of the different components in the primary packaging (secondary packaging is not used).

Concerning the data and the quality requirements, specific data has been collected for:

- materials and weight of each trolley component;
- third-party electric consumption for moulding and transport from the third-party facility to Filmop facility;
- general Filmop facility consumption, including waste production;



As indicated by the PCR, the declared unit is a cleaning trolley for professional use.

The study refers to the entire 2015. Thus the specific and general data refer to that period. The only exception are the specific data relating to the power consumption of the third parties, used for moulding, that are related to 2013.

Selected generic data and proxy data from database are related to the last 5 years.

As far as the contribution of the proxy data to the overall impacts is concerned, the following approach was used: it was considered as proxy data those data used for chemical products related to the dyes used to colour the different components of the trolley.

The threshold permitted by PCR to use in the study up to a maximum 10% of general data (not selected) is respected for all impact categories.

We used the databases in the LCA software SimaPro 8.5.0.0, in particular Ecoinvent in version 3.2 "Allocation recycled content" - which is the version which is most in line with the principles of PCR.

The composition of the materials constituting the "**Top-down MA2606701U000**" trolley is detailed in the following table:

	kg/D.U.	%
<b>Polypropylene</b>	18,213	70,99%
<b>Polypropylene PSV</b>	4,715	18,38%
<b>Thermoplastic rubber</b>	1,064	4,15%
<b>Thermoplastic polymer</b>	1,664	6,49%
<b>TOTAL</b>	<b>25,656</b>	<b>100,00%</b>

**Table 1:** Trolley composition

As declared by our suppliers, in our products there is currently no substance mentioned in Annex XIV of the Rules or in the Candidate List of SVHC, updated to the date of this declaration.



# ENVIRONMENTAL PERFORMANCE DECLARATION

The environmental results, related to the declared unit (1 trolley) are outlined below.

## Resources Consumption

1 TROLLEY TOP-DOWN - MA2606701U000						
ENVIRONMENTAL INDICATOR		Unit	Total	Upstream	Core	Downstream
NON-RENEWABLE RESOURCES	Material of which:	kg	34,32	24,05	0,75	9,52
	Oil (feestock)	kg	20,32	20,32	0,00	0,00
	Gravel	kg	12,03	2,75	0,65	8,63
	Calcite	kg	0,76	0,48	0,03	0,25
	Other	kg	1,22	0,50	0,08	0,64
	Energy of which:	kg	24,45	17,57	1,18	5,71
	Oil	kg	6,89	2,24	0,31	4,34
	Natural gas	kg	10,85	10,02	0,55	0,28
	Coal	kg	6,66	5,28	0,30	1,08
	Peat	kg	0,04	0,03	0,01	0,00
	Uranium	kg	2,23 E-04	2,12 E-04	3,54 E-06	7,79 E-06
RENEWABLE RESOURCES	Material of which:	kg	1,20	0,47	0,61	0,12
	Wood	kg	1,20	0,47	0,61	0,12
	Energy of which:	MJ	50,58	37,32	9,92	3,34
	Water	MJ	25,80	23,52	0,70	1,58
	Biomass	MJ	18,91	9,27	8,12	1,52
	Eolic	MJ	4,87	4,52	0,12	0,24
	Solar	MJ	0,99	0,001	0,98	0,009
WATER CONSUMPTION	TOTAL Of which direct consumption in the CORE:	l	2.578,64	2.263,67	89,64 0,0087	252,34
SECONDARY RESOURCES	Material of which:	kg	4,72	4,72	-	-
	Recycled Polypropylene	kg	4,72	4,72	-	-
	Energy resources	kg	0	-	-	-
	Recovered energy flows	kg	0	-	-	-

**Table 2:** Material and Energy resources consumption



## Potential environmental impacts

1 TROLLEY TOP-DOWN - MA2606701U000		Upstream	Core	Downstream
IMPACT CATEGORIES	Total*	Raw materials production	Trolley assembly/transport	Distribution of end product
GLOBAL WARMING -GWP <sub>100</sub> (Kg CO <sub>2</sub> eq.)	77,20 ± 28,87	57,18	4,93	15,09
ACIDIFICATION (Kg SO <sub>2</sub> eq.)	0,253 ± 0,043	0,199	0,014	0,039
EUTROPHICATION (Kg PO <sub>4</sub> <sup>3-</sup> eq.)	0,047 ± 0,011	0,032	0,006	0,009
PHOTOCHEMICAL SMOG (Kg C <sub>2</sub> H <sub>4</sub> eq.)	0,016 ± 0,003	0,012	0,001	0,003

**Tabella 3:** Potential environmental impacts

\* estimated uncertainty value according to UNI National Standard 11698:2017 "Environmental Product Management - Evaluation, declaration and use of the uncertainty of the results of a Life Cycle Assessment - Requirements and guidelines".

ENVIRONMENTAL INDICATORS		Unit	Totale	Upstream	Core	Downstream
WASTE	Hazardous waste	kg	0,07	0,07	-	-
	Non-hazardous waste	kg	29,62	0,56	0,50	28,56
	Radioactive	kg	0,00	-	-	-
OTHER INDICATORS					Total	
Ratio of the recycled material in the product*					18,4%	
Ratio of material in the product that can be recycled in the end of life**					89,4%	

**Table 4:** Other environmental indicators

\* percentage calculated only for the cleaning trolley, without the primary packaging.

\*\* percentage calculated only for the cleaning trolley, without the primary packaging and without considering the wheels for recycling, given their mixed composition.

The waste and recyclable materials indicated in table 4 of the Core Module pertain to **Filmop International SRL**, where no hazardous waste is produced.

All the types of waste related to the production of trolleys (plastics, paper) are submitted to suitable recycling systems.



# INFORMATION

## Programme-related information and verification

See PCR for detailed requirements.

**Programme:** The International EPD® System  
EPD International AB- Box 210 60 - SE-100 31 Stockholm Sweden  
www.environdec.com

**Product category rules:** PCR 2008:07 Cleaning trolleys for professional use, Version 2.2

**Reference year for production data:** 2015

**Product category rules (PCR):**  
Cleaning trolleys for professional use, 2008:07, Version 2.2, published in 28/09/2016

**PCR review was conducted by:**  
The Technical Committee of the International EPD® System. Contact via info@environdec.com. Reviewer Chair: Claudia Pena

**Independent verification of the declaration and data, according to ISO 14025:2006:**  
☐ EPD Process Certification (internal) ☒ EPD Verification (external)

**Third party verifier:**  
RINA Services S.p.A. Via Corsica 12, I-16128 Genova (Italy)- Tel: +39 010 53851 Fax: +39 010 5351000 www.rina.org

**Accredited by:** ACCREDIA (reg. n° 001H)

## Mandatory statements:

The use stage does not consider cleaning product in accordance to PCRPCR 2008:07 version 2.2 "Cleaning trolleys for professional use". Information concerning the databases used: www.ecoinvent.com

"EPDs within the same product category but from different programmes may not be comparable"

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## References:

LCA report "EPD for the Cleaning trolley for professional use" (version of 26/03/2018) – Filmop International Srl

General Programme Instructions of the International EPD® System Version 2.5 del 11/05/2015

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