

# **EPD – ENVIRONMENTAL PRODUCT DECLARATION**

**IN ACCORDANCE WITH ISO 14025 FOR:  
GREEN FLEECE JACKET 4921 GRF AND HALF ZIP SWEATSHIRT 7048 SHV**

## **GENERAL INFORMATION**

**OWNER OF THE EPD:**

Fristads AB Norra Däckvägen 2, 501 11 Borås, Sweden  
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lene.jul@fristads.com  
www.fristads.com

**NAME AND LOCATION OF PRODUCTION SITE:**

Laos

**PROGRAMME:**

The International EPD<sup>®</sup> System  
www.environdec.com

**PROGRAMME OPERATOR:**

EPD International AB

**EPD REGISTRATION NUMBER:** S-P-01535

**PUBLICATION DATE:**

2019-03-18

**VALIDITY DATE:**

2024-03-15

**GEOGRAPHICAL SCOPE:**

Global

Prepared with the assistance of RISE IVF AB.



# A FIRST STEP IN REDUCING THE ENVIRONMENTAL FOOTPRINT

Fristads is now the first clothing producer in the world to introduce a new standard for measuring the total environmental impact of a garment – from choice of material to delivery of the finished garment.

With three own factories in Europe and sales in more than 20 countries, there are many people around the world working for us – and we care for each and every one of them. These are fine words of course, and we stand firmly behind them. Injustices, unreasonable working hours, low wages, corruption – these are all issues that we resist, where we are constantly on our guard. We work hard to exert our influence wherever our products are made.

We have set high requirements for the companies that want to be our suppliers, at all stages. We give consideration to all the details in the chain, from human rights to environmental impact. It's our duty.

Our work with sustainability is based on the 10 principles in the UN's Global Compact, which forms the basis for our Code of Conduct. We respect and promote human rights according to the United Nations Declaration of Human rights and the Core Conventions of the International Labour Organisation. As a member of the Amfori, we pursue, through the BSCI (Business Social Compliance Initiative) a constructive and open dialogue among our business partners and stakeholders to reinforce the principles of a socially responsible business.

Moreover, since 2011, we have been collaborating with the Fair Wear Foundation to further guarantee that the working conditions in our factories meet and exceed international and local requirements.

We are certified according to ISO 14001 and work constantly to improve our environmental performance. We monitor the use of chemicals in our products throughout our supply chain. Our Restricted Substance List, shared among all suppliers, reflects the latest EU harmonized legislation which includes REACH, pops regulation, Biocide Regulation and Product Safety Regulation, and is updated regularly based on the guidance of our partner RISE, the Swedish Chemical Group. Furthermore, most of our products are OEKO-TEX® certified.

These efforts are rarely visible from the outside. But, we know they make a difference. For this reason, they are extremely important for us as we strive to make a better world to live in, a world we can proudly leave for the generations that follow us.

Read more at [fristads.com](http://fristads.com).



HUMAN RIGHTS,  
LABOUR, ENVIRONMENT,  
ANTI-CORRUPTION



SOCIAL COMPLIANCE



ENVIRONMENT



CHEMICAL REGULATIONS



# EPD

## ENVIRONMENTAL PRODUCT DECLARATION

By developing an EPD, Fristads aims to contribute to positive change and greater transparency when it comes to environmental impact.



The Fristads Green concept presents the first EPD certified garments in the world. First up is a collection for craftsmen.

# THE WORLD'S FIRST EPD FOR CLOTHING

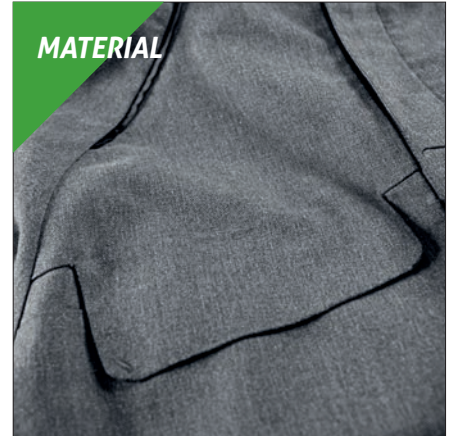
The Fristads objective is to contribute a long-term, sustainable and transparent measuring tool for environmental impact – a standard that can be used throughout the textile industry.

An Environmental Product Declaration (EPD) is an independently verified and registered document that communicates transparent and comparable information about the life cycle environmental impact of products. The relevant standard for Environmental Product Declarations is ISO 14025, where they are referred to as "Type III environmental declarations". A Type III environmental declaration is created and registered in the framework of a programme, such as the International EPD® System.

The International EPD® System has, as a main objective, the ambition to enable and support organisations in any country to communicate quantified environmental information on the life cycle of their products in a credible, comparable, and understandable way. All EPDs registered in the International EPD® System are publically available and free to download on this website: [www.environdec.com](http://www.environdec.com).

All EPDs are based on Product Category Rules providing rules, requirements, and guidelines for a defined product category. The overall goal of an EPD is to provide relevant and verified information to meet the communication needs in the various applications: procurement, ecodesign or environmental management systems. An important aspect of EPD is to provide the basis of a fair comparison of products and services by its environmental performance. EPDs can reflect the continuous environmental improvement of products and services over time and are able to communicate and add up relevant environmental information along a product's supply chain.

## MATERIAL



## CONSTRUCTION



## PRODUCTION



## DELIVERY



**EPD**®





**REDUCES WATER  
CONSUMPTION  
BY 75%**



**e.dye®**

**– THE WATERLESS  
COLOURING SYSTEM**

e.dye is a solution dyed polyester color system with over 2,500 colors and a sophisticated color-matching process for textiles. Solution dyeing means putting color inside the masterbatch chips, melt spun and extruded into yarn in color, instead of extruding raw white yarn that is later dyed in traditional water dye process.

With over 20 years of experience, e.dye Ltd has the R&D and knowhow to offer customers a wide range of support and value added services that provide a competitive edge.

By controlling the entire supply chain, they make their own recipe by producing their masterbatch 100% in-house. This is then sent throughout the supply chain with clear instructions for the best end result

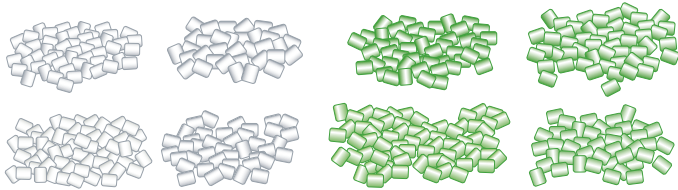
on fabric ready for Gmt production. They ensure that quality meets the highest standards. e.dye® Waterless Color System™ offers an environmentally sustainable process for dyeing fabrics. Using the solution dyed polyester process, e.dye® requires no water to dye synthetics. By adding the color before the polymers are extruded, the color is inside the yarn, resulting in superior color performance. e.dye is a solution dyed polyester color

system with over 2,500 colors and a sophisticated color-matching process for garment textiles.

e.dye is a paradigm shift in textile dyeing, because e.dye actually puts the color inside the yarn.

# THIS IS THE e.dye TECHNIQUE

## WHAT IS e.dye?

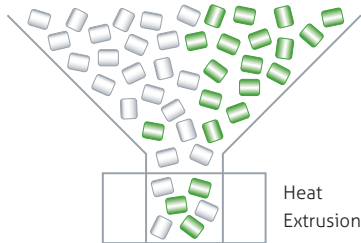


Raw stock PET or rPET  
Lusters available: bright, semidull and full dull. Up to 95% recycled. GRS Certified.

Masterbatch Colors - in stock  
Made in-house by e.dye, according to a recipe tied to 2,500 colors in the e.dye Color Bank.



Dosing Masterbatch and raw white PET



Heat Extrusion



Spinning Yarns  
(Color is inside!)

This process eliminates water consumption and reduces chemical use, energy consumption and CO<sub>2</sub> emissions.

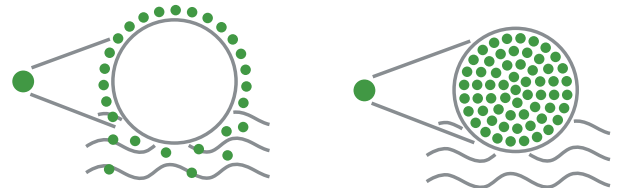
## WHY IS e.dye BETTER?

Traditional Piece Dye  
Color is outside - of the surface of the yarn filament.

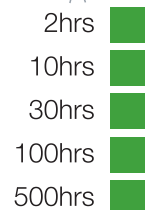
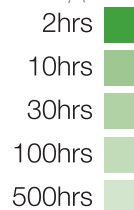
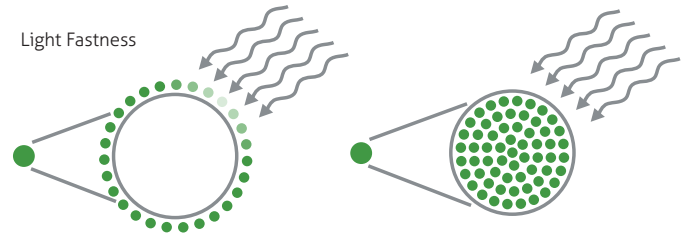
e.dye® Waterless Color System™  
Color is inside - evenly dispersed throughout the entire yarn filament.



Wash Fastness



Light Fastness



# THE WORLD'S FIRST FLEECE JACKET WITH AN EPD



Most of the zipper is made of recycled polyester

Special design featuring advanced folding and fewer stitches – reduces sewing time, cuts usage of thread and avoids unnecessary waste

Made of recycled polyester. The polyester is dyed using the e.dye® system which reduces water consumption by 75%

Clean design involving minimal details and smart solutions; saves energy in production and facilitates recycling of the material



## GREEN FLEECE JACKET 4921 GRF

Article no 129826

Part of Fristads Green collection / Single jersey contrast fabric in collar, under armhole and alongside front zipper / Stand collar / Full length front zip / Special sleeve construction / Contrast tape on shoulders / Chest pcket with zip / 2 front pockets with zip / Ribbed cuffs and bottom / e.dye® / With EPD (Environmental Product Declaration) / OEKO-TEX® certified.

**MATERIAL** 100% recycled polyester. **WEIGHT** 285 g/m². **COLOUR** 896 Grey/Black. **SIZE** XS-4XL.



All surplus material from production is utilised on site and turned into "comfort pads" – a bonus product for elbows and knees in other Fristads Green products





# GREEN FLEECE JACKET 4921 GRF AND HALF ZIP SWEATSHIRT 7048 SHV

Three types of 100 % polyester filament yarn fabrics have been studied in two versions: dope dye and piece dye, see Table 1.

GARMENT NAME	STYLE NO	DESCRIPTION
Green fleece jacket 4921 GRF	129826	Sweater: Green collection, dope dyed
Half zip sweatshirt 7048 SHV	122408	Sweater: Comparison product



**GREEN FLEECE JACKET  
4921 GRF**

Art no 129826



**HALF ZIP SWEATSHIRT  
7048 SHV**

Art no 122408

# LCA INFORMATION

## – LIFE CYCLE ASSESSMENT

Life Cycle Assessment is a method for analysing the environmental impact of a product throughout its life-cycle, from the extraction of raw materials (the cradle) to handling the waste (the grave).

### GOAL OF THE STUDY

An LCA study has been conducted in accordance with ISO 14044 and the requirements stated in the General Programme Instructions by The International EPD® System<sup>1</sup>.

The goal of the present LCA study has been to calculate environmental impact values for Fristads' Fleece jacket 4921 GRF and Half zip sweatshirt 7048 SHV to create this Environmental Product Declaration, to be used for communicating environmental performance to customers.

### SCOPE OF THE STUDY

The scope of this study is cradle to gate and includes all processes up until the fleece sweater is manufactured, see Figure 1. All material and resource consumption is tracked back to the point of raw material extraction, mainly by using cradle-to-gate data<sup>2</sup> from the Ecoinvent database.

The functional unit of the study is 1 (one) garment, in accordance with the Product Category Rules (PCR)<sup>3</sup>.

### DATA COLLECTION

The inventory for the LCA study was carried out during 2018, collecting data for 2017 and 2018. The on-site visits covered all manufacturing processes:

- masterbatch production: Single pigment colour (SPC) or multipigment colour (MPC);
- polyester filament yarn manufacturing: melt spinning, drawing and texturizing;
- knitting/weaving; and
- fabric wet treatment (scouring, dyeing and finishing).

The data for confectioning was collected by Fristads' staff.

### ALLOCATION

Whenever it has been necessary to partition the system inputs and outputs, mass criteria have been used in accordance with the PCR. Such situations have for example been when the share of energy and water consumption of an entire production plant has been allocated to the specific fabric based on the total production volume (mass) of the plant.

### CUT-OFF RULES

The PCR states that life cycle inventory data for a minimum of 99 % of total inflows to the three life cycle stages (up-stream, core and down-stream modules) shall be included and a cut-off rule of 1% regarding energy, mass and environmental relevance shall apply.

### ASSUMPTIONS AND LIMITATIONS

Some general assumptions have been made around transport vehicles to enable use of database data from Ecoinvent<sup>4</sup> to represent primary data. Country electricity mix datasets have been used for electricity when the site reports that they use the country electricity net.

Generally, the LCA data should be used with precaution if interpreted for any other purpose than this EPD.

### DATA QUALITY

The data quality has been considerably increased by the experience from making a similar study in the past<sup>5</sup>.

### ADDITIONAL INFORMATION ABOUT THE LCA STUDY

#### TIME REPRESENTATIVENESS:

2017-2018

#### DATABASE(S) AND LCA SOFTWARE USED:

SimaPro version 8.5.0.0<sup>6</sup>  
ecoinvent version 3.4<sup>7</sup>

#### DESCRIPTION OF SYSTEM BOUNDARIES:

cradle-to-gate

#### LCA PRACTITIONER:

Sandra Roos, RISE  
PO Box 104, SE-431 22 Mölndal, Sweden

#### THIRD PARTY REVIEWER:

Marcus Wendin, Miljögiraff KB, Övre Hövik 25b,  
SE-430 84 Göteborg, Sweden

<sup>1</sup> EPD International, 'General Programme Instructions for the International EPD® System Version 3.0' (2017) <[www.environdec.com](http://www.environdec.com)>.

<sup>2</sup> Cradle-to-gate = all processes from cradle (mining site, forest etc.) to gate (until the goods is produced and ready for delivery at the factory gate).

<sup>3</sup> EPD International, 'PCR 2019:05. Sweaters, Jerseys, Pullovers, Cardigans, Fleeces and Similar Garments: UN CPC 282. Product Category Rules According to ISO 14025. Version 1.0' (2019).

<sup>4</sup> Ecoinvent, 'Ecoinvent' <<https://www.ecoinvent.org/database/database.html>>.

<sup>5</sup> EPD International, 'EPD WRSD Fabrics (Spun Dyed and Piece Dyed Versions). EPD Registration Number S-P-00710.' (2015) <<http://www.environdec.com/en/Detail/epd710#.VVxlJ2cw-M8>>.

<sup>6</sup> PRé Consultants, 'SimaPro 8.5' <<http://www.pre-sustainability.com/simapro>>.

<sup>7</sup> Ecoinvent (n 4).

# SYSTEM DIAGRAM

The system boundaries of this EPD are decided by the Product Category Rules (PCR) and illustrated by Figure 1.

Garment manufacturing, retail, use and end-of-life processes are not included. The only downstream process included in the system boundary, the transport to the customer, was found to give a negligible contribution to the environmental impact (<1% for all categories). Therefore, the downstream phase is not reported separately.

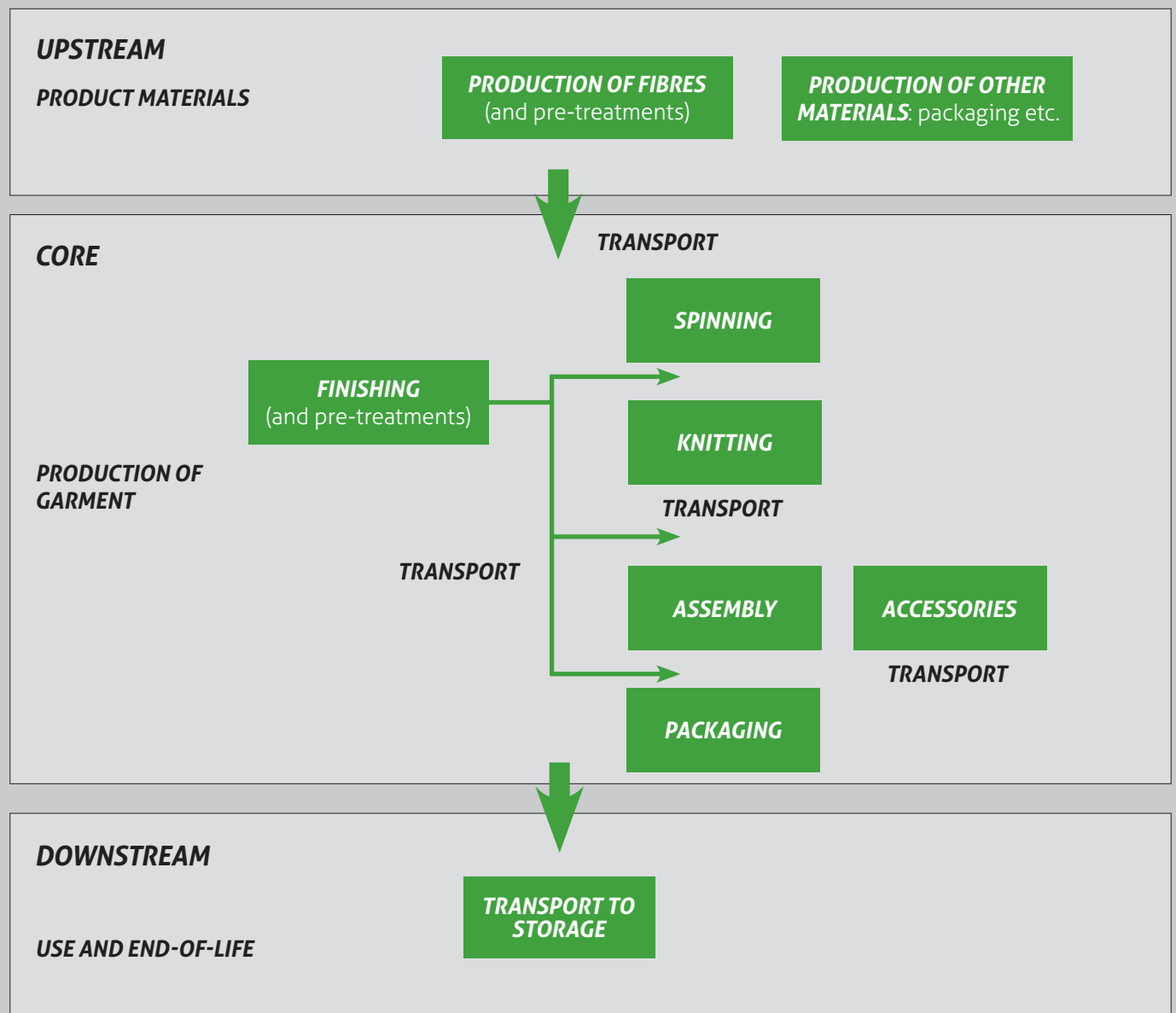


Figure 1. The system boundaries include upstream, core and downstream processes.

## CONTENT DECLARATION

### GREEN FLEECE JACKET 4921 GRF

MATERIALS	UNIT	%	ENVIRONMENTAL / HAZARDOUS PROPERTIES
Main fabric GRF		72%	100% polyester
Contrast fabric GRK		12%	100% polyester
Rib GRR		13%	97% polyester, 3% elastane
Thread polyester		0.2%	100% polyester
Care and size labels		1%	100% polyester
Paper trims		1%	100% paper

### HALF ZIP SWEATSHIRT 7048 SHV

MATERIALS	UNIT	%	ENVIRONMENTAL / HAZARDOUS PROPERTIES
Main fabric SHV		65%	75% polyester, 25% cotton
Contrast fabric SHV		14%	75% polyester, 25% cotton
Rib SHV		13%	100% polyester
Contrast fabric THV		5%	55% cotton, 45% polyester
Thread polyester		0.2%	100% polyester
Care and size labels		1%	100% polyester
Paper trims		1%	100% paper

### PACKAGING

Distribution packaging: Cardboard box  
 Consumer packaging: Plastic bag (polyethylene)

### RECYCLED MATERIAL

Provenience of recycled materials (pre-consumer or post-consumer) in the product:  
 The polyester in the e.dye DFL138-S2B2VI fabric is recycled post-consumer waste, certified via Global Recycle Standard (GRS).

## ENVIRONMENTAL PERFORMANCE

The only downstream process included in the system boundary, the transport to the customer, was found to give a negligible contribution to the environmental impact (<1% for all categories). Therefore, the downstream phase is not reported separately but is included in the total figure.

### POTENTIAL ENVIRONMENTAL IMPACT

PARAMETER		UNIT	SWEATERS	UPSTREAM	CORE	TOTAL
Global warming potential (GWP)	Fossil	kg CO <sub>2</sub> eq.	4921 GRF	3.65	6.72	10.56
			7048 SHV	6.18	7.03	13.37
	Biogenic	kg CO <sub>2</sub> eq.	4921 GRF	0.41	0.33	0.75
			7048 SHV	0.31	0.40	0.71
	Land use and land transformation	kg CO <sub>2</sub> eq.	4921 GRF	0.005	0.015	0.020
			7048 SHV	0.046	0.099	0.145
	<b>TOTAL</b>	kg CO <sub>2</sub> eq.	4921 GRF	4.07	7.06	11.32
			7048 SHV	6.54	7.53	14.22
Acidification potential (AP)	kg SO <sub>2</sub> eq.	4921 GRF	0.0174	0.0327	0.0529	
		7048 SHV	0.0311	0.0408	0.0742	
Eutrophication potential (EP)	kg PO <sub>4</sub> <sup>3-</sup> eq.	4921 GRF	0.0050	0.0058	0.0111	
		7048 SHV	0.0068	0.0071	0.0141	
Formation potential of tropospheric ozone (POCP)	kg C <sub>2</sub> H <sub>4</sub> eq.	4921 GRF	0.0009	0.0013	0.0023	
		7048 SHV	0.0016	0.0020	0.0037	
Water scarcity potential	m <sup>3</sup> eq.	4921 GRF	0.86	1.30	2.17	
		7048 SHV	4.18	2.50	6.70	

### USE OF RESOURCES

PARAMETER		UNIT	SWEATERS	UPSTREAM	CORE	TOTAL
Primary energy resources – Renewable	Use as energy carrier	MJ, net calorific value	4921 GRF	5.34	7.93	13.32
			7048 SHV	8.47	9.11	17.62
	Used as raw materials	MJ, net calorific value	4921 GRF	0	0	0
			7048 SHV	0	0	0
	<b>TOTAL</b>	MJ, net calorific value	4921 GRF	5.34	7.93	13.32
			7048 SHV	8.47	9.11	17.62
Primary energy resources – Non-renewable	Use as energy carrier	MJ, net calorific value	4921 GRF	48.09	63.23	114.25
			7048 SHV	154.04	171.04	327.42
	Used as raw materials	MJ, net calorific value	4921 GRF	2.65	0.64	3.29
			7048 SHV	35.49	0	35.49
	<b>TOTAL</b>	MJ, net calorific value	4921 GRF	61.41	79.72	144.17
			7048 SHV	206.47	189.26	398.15
Secondary material	kg	4921 GRF	0.83	0	0.83	
		7048 SHV	0	0	0	
Renewable secondary fuels	MJ, net calorific value	4921 GRF	0	0	0	
		7048 SHV	0	0	0	
Non-renewable secondary fuels	MJ, net calorific value	4921 GRF	0	0	0	
		7048 SHV	0	0	0	
Net use of fresh water	m <sup>3</sup>	4921 GRF	0.004	0.017	0.021	
		7048 SHV	1.79	0.031	1.822	

## PRODUCT CHARACTERISTICS

The product characteristics are presented in Table 2.

**TABLE 2. PRODUCT CHARACTERISTICS**

<b>CHARACTERISTIC</b>	<b>TEST METHOD</b>	<b>RESULTS GRF</b>	<b>RESULTS SHV</b>
<b>COMPOSITION</b>	Regulation EU No 1007/2011	100% polyester	75% polyester, 25% cotton
<b>FABRIC</b>	ISO 8388	Fleece knit	French terry
<b>MASS PER UNIT AREA</b>	EN 12127	285 g/m <sup>2</sup>	305 g/m <sup>2</sup>
<b>WIDTH</b>	EN 1773	170 cm	150 cm
<b>COLOUR INDEX</b>			
<b>BURSTING STRENGTH</b>	ISO 13938-2	Exceeds 700 kPa	Exceeds 500 kPa
<b>PILLING TEST (MARTINDALE) AFTER 5000 RUBS</b>	EN ISO 12945-2	3 (matting)	4
<b>STRETCH PROPERTIES</b>	EN 14704-1	Extension at 15 N Lengthwise: 21,3% Widthwise: 73,2% Residual extension after 1 min relax.: Lengthwise: 1,0% Widthwise: 7,0% Residual extension after 30 min relax.: Lengthwise: 0,0% Widthwise: 5,0%	Extension at 15 N Lengthwise: 16,9% Widthwise: 63,8% Residual extension after 1 min relax.: Lengthwise: 2,0% Widthwise: 2,3% Residual extension after 30 min relax.: Lengthwise: 1,0% Widthwise: 1,0%
<b>DIMENSIONAL CHANGE TO WASHING</b>	EN ISO 6330	Lengthwise: -1,4% Widthwise: +0,9%	Lengthwise: +0,5% Widthwise: +1,0%
	EN ISO 3759		
	EN ISO 5077		
<b>PH OF WATER EXTRACT</b>	EN ISO 3071	6,4	5
<b>COLOUR FASTNESS TO ARTIFICIAL LIGHT: XENON ARC FADING LAMP TEST</b>	EN ISO 105 B02	4 or better	4 or better
<b>COLOUR FASTNESS TO WASHING</b>	EN ISO 105 C06	Color change: 4-5 Color staining: Acetate 4-5 Cotton 4-5 Nylon 4-5 Polyester 4-5 Acrylic 4-5 Viscose 4-5	Color change: 4-5 Color staining: Acetate 4-5 Cotton 4-5 Nylon 4-5 Polyester 4-5 Acrylic 4-5 Viscose 4-5
<b>ACID AND ALKALINE PERSPIRATION</b>	EN ISO 105 E04	Alkaline and Acidic Color change: 4-5 Color staining: Acetate 4-5 Cotton 4-5 Nylon 4-5 Polyester 4-5 Acrylic 4-5 Viscose 4-5	Alkaline and Acidic Color change: 4-5 Color staining: Acetate 4-5 Cotton 4-5 Nylon 4-5 Polyester 4-5 Acrylic 4-5 Viscose 4-5
<b>DRY AND WET RUBBING</b>	EN ISO 105 X12	Dry: 4-5 Wet: 4-5	Dry: 4-5 Wet: 4-5

# WASTE PRODUCTION AND OUTPUT FLOWS

## WASTE PRODUCTION

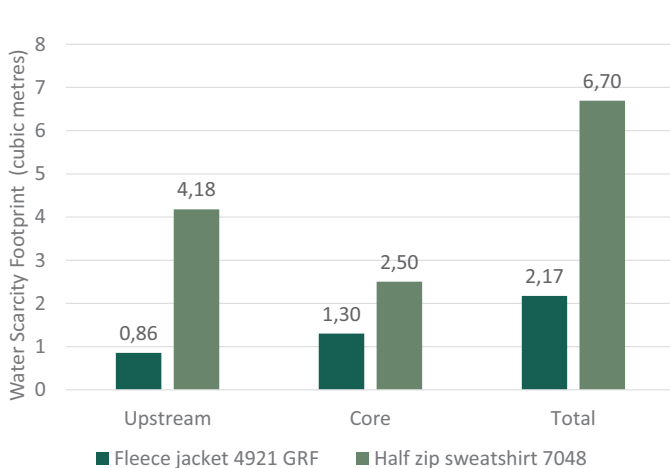
PARAMETER	UNIT	SWEATERS	UPSTREAM	CORE	TOTAL
Hazardous waste disposed	kg	4921 GRF	0	0	0
		7048 SHV	0	0	0
Non-hazardous waste disposed	kg	4921 GRF	0.094	0.282	0.375
		7048 SHV	0.106	0.205	0.311
Radioactive waste disposed	kg	4921 GRF	0	0	0
		7048 SHV	0	0	0

The result tables shall only contain values or the letters "INA" (Indicator Not Assessed). It is not possible to specify INA for mandatory indicators. INA shall only be used for voluntary parameters that are not quantified because no data is available.

## ADDITIONAL INFORMATION

Our garments are OEKO-TEX® certified at garment level and we have a well-established programme to monitor chemical safety compliance. We closely monitor research on microplastics and in this context, it is important to note that it is the content of toxic substances in the plastic that is the main problem.

The water savings (Water Scarcity Footprint) in Fleece jacket 4921 GRF and Half zip sweatshirt 7048 SHV stems mainly from substituting cotton fibres (Upstream processes) which is illustrated in Figure 2 (note that the Fleece jacket 4921 GRF weighs 500 g while the Half zip sweatshirt 7048 weighs only 400 g). The Global Warming Potential of Fleece jacket 4921 GRF and Half zip sweatshirt 7048 SHV are shown in Figure 3.



**Figure 2.** The Water Scarcity Footprint of Fleece jacket 4921 GRF and Half zip sweatshirt 7048 SHV. Figures for one sweater.



**Figure 3.** The Global Warming Potential of Fleece jacket 4921 GRF and Half zip sweatshirt 7048 SHV. Figures for one sweater of 500 grams respective 400 grams.



# FRISTADS **GREEN** COLLECTION

## GARMENTS WITH CARE FOR THE FUTURE

Fristads Green is a new concept where the entire manufacturing chain is characterised by environmental awareness and innovative solutions to minimise the environmental footprint. First up is a collection for craftsmen.



The materials are recycled polyester and undyed cotton. The polyester is dyed using the e.dye® system where the colour is added to the raw material before it becomes yarn. This reduces water consumption by 75 % compared with traditional dyeing.

The garments are specially designed, featuring advanced folding that reduces sewing time and avoids unnecessary waste.

The garments have a clean design involving minimal details and smart solutions, which saves energy in production and facilitates recycling of the material.

We employ a “zero waste” approach – which means that we reuse all waste material from production. All surplus material is utilised on site and turned into “comfort pads” – a bonus product for elbows and knees.

In order to avoid the use of plastic bags, garments are folded using a special folding technique. This also means they take up less space, allowing us to make optimum use of transport capacity.

All transport is by sea and road, which has significantly less environmental impact than air transport.



## PROGRAMME-RELATED INFORMATION AND VERIFICATION

The EPD owner has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programmes may not be comparable

Programme:	The International EPD® System  EPD International AB Box 210 60 SE-100 31 Stockholm Sweden  www.environdec.com
EPD registration number:	S-P-01535
Published:	2019-03-18
Valid until:	2024-03-15
Product Category Rules:	PCR 2019:05. Sweaters, Jerseys, Pullovers, Cardigans, Fleece and Similar Garments. Version 1.0
Product group classification:	UN CPC 282
Reference year for data:	2017-18
Geographical scope:	Global

Product category rules (PCR): Sweaters, jerseys, pullovers, cardigans, fleeces and similar garments, PCR 2019:05, Version 1.0, UN CPC 282.
PCR review was conducted by: The Technical Committee of the International EPD® System. A full list of members available on <a href="http://www.environdec.com">www.environdec.com</a> . The review panel may be contacted via <a href="mailto:info@environdec.com">info@environdec.com</a> . Chair of the PCR review: Hüdai Kara, Metsims Sustainability Consulting.
Independent third-party verification of the declaration and data, according to ISO 14025:2006:  <input type="checkbox"/> EPD process certification <input checked="" type="checkbox"/> EPD verification
Third party verifier:  Marcus Wendin Miljögiraff AB  Approved by: The International EPD® System
Procedure for follow-up of data during EPD validity involves third party verifier:  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

## REFERENCES

- Anonymous. (2018c). Facility D for confectioning.
- Anonymous. (2018d). Facility E for mélange yarn spinning.
- Anonymous. (2018e). Facility F for staple fibre manufacturing.
- Anonymous. (2018f). Facility G for yarn knitting and greige making.
- Ecoinvent, 'Ecoinvent'  
<<https://www.ecoinvent.org/database/database.html>>
- EPD International, 'EPD WRSD Fabrics (Spun Dyed and Piece Dyed Versions). EPD Registration Number S-P-00710.' (2015)  
<<http://www.environdec.com/en/Detail/epd710#.VVxlJ2cw-M8>>
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<[www.environdec.com](http://www.environdec.com)>
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