

JET TEX CLASSIC

# LIFE CYCLE ASSESSMENT

EVERGREEN FABRICS are developed and produced using an eco-design approach to protect the environment and human health.

# LIFE CYCLE



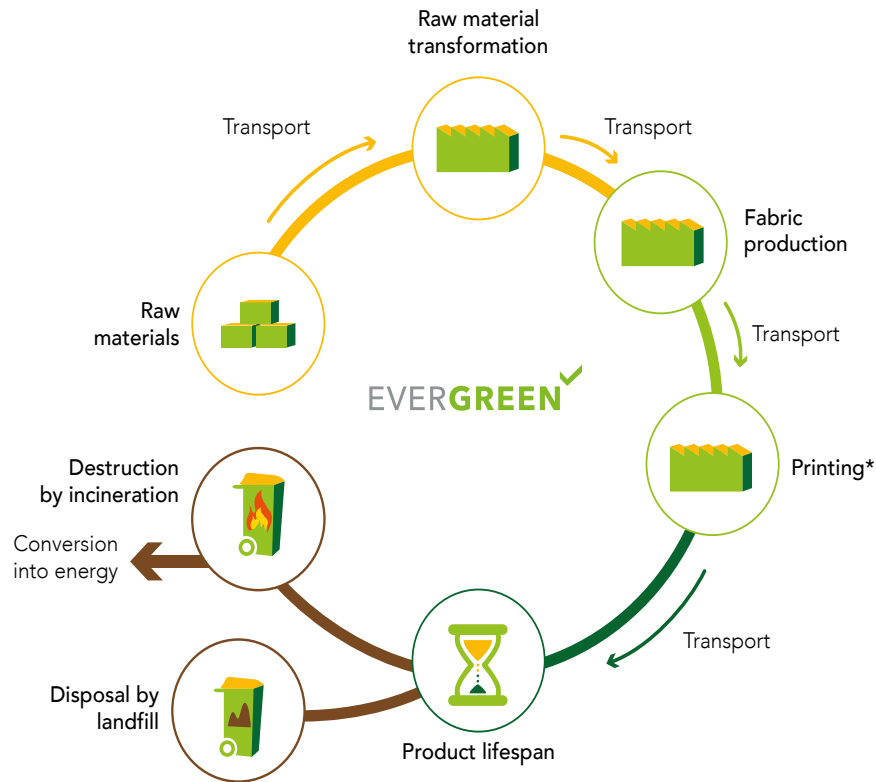
The LCA analyses all the impacts of EVERGREEN fabrics throughout their lifecycle from conception to destruction throughout the manufacturing process, distribution and user impact. The LCA was carried out by an external agency and overseen by independent authorities. .

## 1. FORMULATION

Includes chemical and textile raw material information from our suppliers (resource extraction, creation of chemical molecules, yarns, base cloths, transport...).

## 4. DESTRUCTION

Including product disposal, 50% landfill and 50% incineration..



## 2. PRODUCTION

Includes all stages during manufacturing and packaging within the company.

## 3. USE

Includes transport and product life with the customer.

\* Printing is not included due to lack of information on the techniques used and their impact on the environment during the printing process.

**The LCA shows that the main environmental impact (78%) comes from the formulation stage (extraction of raw materials and their transformation)..**

**EVERGREEN Fabrics are eco-designed in a sustainable way throughout the production process. They are composed of polyester yarns and a water based coating. The environmental advantages of EverGreen Fabrics are proven by the Life Cycle Assessment (LCA) which meet the ISO 14 040 - 14 044 norms.**

**This reinforces and proves the ecological advantages of EverGreen Fabrics which are free from most known toxic substances. Average impact on the environment is reduced to 45% compared to an equivalent PVC banner.**

**EVERGREEN Fabrics are guaranteed to be :**

- PVC free
- Phthalate free
- Formaldehyde free
- Phosphate free
- Glycol-ether free

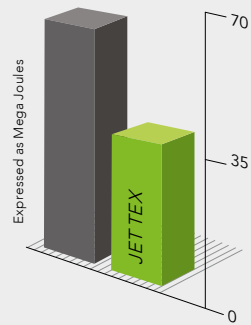
# COMPARATIVE STUDY

## FOR 1M<sup>2</sup> OF FABRIC

■ EVERGREEN JET TEX CLASSIC  
■ PVC Frontlit flame retardant



### NON RENEWABLE ENERGY SOURCES



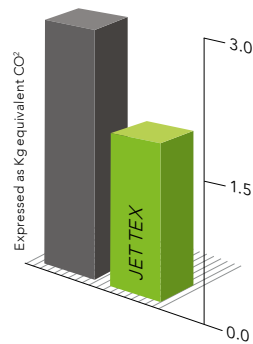
Including energy consumption (oil, gas, coal, uranium..) combustible or electricity as well as energies necessary for extraction, transport, and refining of these energy sources.

	Jet Tex	PVC frontlit
<span style="color: #FFC107;">■</span> <b>Formulation</b>	<b>32,3</b>	<b>53,4</b>
<span style="color: #4CAF50;">■</span> Production	7,4	14,1
<span style="color: #008080;">■</span> Use	0,4	0,9
<span style="color: #795548;">■</span> Destruction	<0	<0
<b>TOTAL</b>	<b>38,6</b>	<b>66,2</b>

Expressed in Mega Joules/m<sup>2</sup> for 1m<sup>2</sup> fabric



### CARBON FOOTPRINT



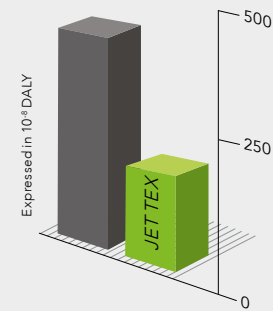
Covers all emissions (CO<sup>2</sup>, CFC, methane..) contributing to climate change.

	Jet Tex	PVC frontlit
<span style="color: #FFC107;">■</span> <b>Formulation</b>	<b>1,34</b>	<b>1,88</b>
<span style="color: #4CAF50;">■</span> Production	0,245	0,6
<span style="color: #008080;">■</span> Use	0,025	0,05
<span style="color: #795548;">■</span> Destruction	0,24	0,42
<b>TOTAL</b>	<b>1,9</b>	<b>3,0</b>

Expressed in Kg equivalent CO<sub>2</sub> For 1m<sup>2</sup> of fabric



### IMPACT ON HUMAN HEALTH



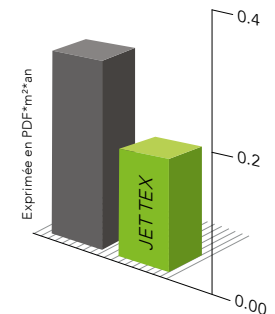
Considers all emissions in the air and water impacting health (toxic substances, ionizing radiation, ozone layer destruction...).

	Jet Tex	PVC frontlit
<span style="color: #FFC107;">■</span> <b>Formulation</b>	<b>157</b>	<b>434</b>
<span style="color: #4CAF50;">■</span> Production	14,3	17,5
<span style="color: #008080;">■</span> Use	2,4	5
<span style="color: #795548;">■</span> Destruction	5	12,8
<b>TOTAL</b>	<b>178</b>	<b>469</b>

Measured in DALY (disability adjusted life per year)/m<sup>2</sup> :the average number of lost years life per European inhabitant. For 1m<sup>2</sup> of fabric



### IMPACT ON ECO-SYSTEMS



Considers all emissions into the soil and water impacting on the ecosystem (eco-toxicity, eutrophication, acidification...).

	Jet Tex	PVC frontlit
<span style="color: #FFC107;">■</span> <b>Formulation</b>	<b>0,13</b>	<b>0,23</b>
<span style="color: #4CAF50;">■</span> Production	0,07	0,07
<span style="color: #008080;">■</span> Use	0,01	0,02
<span style="color: #795548;">■</span> Destruction	0	0,01
<b>TOTAL</b>	<b>0,20</b>	<b>0,33</b>

Expressed as PDF\*m<sup>2</sup>\*an. (\*potentially affected fraction) per m<sup>2</sup> of soil in Europe per year. For 1m<sup>2</sup> of fabric



AN  
UNDENIABLE  
ECOLOGICAL  
ADVANTAGE

EVERGREEN  
ECO-FRIENDLY TEXTILES

EverGreen Fabrics are designed for digital printing and are suitable for the advertising and decoration markets.

The LCA demonstrates the ecological advantages of EverGreen Fabrics compared to a classic PVC banner.

[www.evergreen-fabrics.com](http://www.evergreen-fabrics.com)

