

Sustainability Brochure **Dress**



What's the impact:

Dyeing with Twine vs. current industry processes

A life cycle analysis (LCA) assesses the environmental impacts and attributes associated with all the life cycle stages of a commercial product.

This LCA compares Twine's TS-1800 digital thread and yarn dyeing machine with current industry processes from the moment the raw materials are excavated, up until the polyester thread is dyed.



This LCA was made in collaboration with Made2Flow, with a 3rd party validation by Quantis.

	Functional Unit	Benchmark
Thread	White 100% polyester threads	White 100% polyester threads
	243 Denier	243 Denier
	Turkey	Turkey
Dyeing color	Navy, Pantone 19-4030	Navy, Pantone 19-4030
Quantity	0.45 Kgs	1.2 Kgs
Boundary	Cradle - Dyed Thread	Cradle - Dyed Thread

Results

- 16.04 kg of CO²
- Benchmark: 29.21 kg
- Savings: 45.07%
- Greenhouse gases absorb and emit infrared radiation in the Earth's wavelength range
- Measured in CO² equivalent, it includes gases such as carbon dioxide, nitrous oxide & methane

101 km driven by car

Avoided



289 days





- Benchmark: 1.73 m³
- Savings: 58.37%

- All water used in the direct process or sub-processes (such as energy generation)
- 73.61 MJ of energy
- Benchmark: 93.06 MJ
- Savings: 21.24%
- The use of energy across all processes and sub-processes includes electricity and heat sources. It's measured in Megajoule (MJ)
- 0.14 m² of land use



- Benchmark: 1.33 m²
- Savings: 57.01%
- The environmental impacts of occupying, Reshaping, and managing land for human purposes. It is measured in square meters (m²)

of drinking

NETFLIX

15 hours of watching Netflix

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3.06 paper sheets of a size A4

About Twine

Twine's technology & solution presents a waterless, sustainable thread and yarn dyeing system, which can reduce time to market, and streamline inventory management while enabling an unlimited color palette.

With our zero water use technology, Twine's TS-1800 presents a sustainable thread and yarn dyeing system that addresses the serious water pollution and environmental issues that have been a part of the dyeing industry for decades.

Be Fast. Be Creative. Be Sustainable.



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