GOING GREEN BY FRIEDRICH

Level 5

ReNew∞:Textile-to-Textile Recycling

Sustainable textile cycle for textiles for digital printing -
Recycling of printed and ready-made post-consumer textiles

In the field of classic advertising applications, the end of life of many textiles for digital printing is quickly reached. Printed banners or ready-made textiles for trade fair and event construction are often disposed of after a single use - with negative consequences for our environment and the climate.

To create a more sustainable textile industry we are establishing innovative recycling processes. For example, we use chemical treatment (glycolysis) to completely recycle ready-made and printed polyester and reintroduce it into the textile cycle.

Contributing to a circular textile economy with textile-to-textile recycling

- send printed and ready-made fabrics to GOF for recycling
- recycling by means of glycolysis: Depolymerisation of PET into its monomers
- cleaning the monomers from impurities such as colour residues, flame retardant finishes, silicone, etc.
- **without the use of fossil raw materials:** repolymerisation and production of virgin PET (vPET)
- spinning the recyclate into new yarn in **vPET quality**

Recycling by means of glycolysis offers a solution for ready-made post-consumer textiles which cannot be recycled by conventional mechanical recycling processes.

approved for textile-to-textile recycling:

- **fabrics from GOF production (neccessary)***
- **textiles with polyester percentage ≥ 97 % (neccessary)**
- all printing methods/ink types
- flame retardant treatment
- antistatics
- silicone keder (after approval, no PU piping)
- typical textile soiling

* *Please note the label **„suitable for Level 5 recycling“** in our technical data sheets.*

the following products are currently not suitable for textile-to-textile recycling and therefore cannot be returned:

- PVC, polyurethanes
- acrylate, elastane
- coatings (e. g. blackback-articles, coated lightbox articles)

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Customised and professional recycling process

	With ordering ReNew articles	**Without** ordering ReNew articles
become a recycling partner	• order ReNew articles of your choice • a minimum quantity is not charged	• become a recycling partner without placing a new order
return slip	• receive return slip when ordering ReNew articles • return slip authorises the return of the corresponding quantity of recycling material	• request your return slip • please let us know the quantity of recycling material to be returned
return to GOF	• notification of a return with return slip • various polyester articles from GOF production may be returned together • please note the requirements for textile-to-textile recycling (page 1) • delivery of the recycling material with return slip free GOF (Groß-Zimmern)	
recycling process	• GOF checks the weight of the recycling material delivered • GOF takes random samples to ensure the recyclability of the material • GOF collects and compresses the returns of different customers for onward dispatch to the recycling service provider	
billing	• the cost of recycling is covered with the purchase of ReNew articles	• the costs of recycling will be invoiced after the material has been sorted • billing is in EUR/kg
recycling certificate	• the certificate confirms that the returns are sent for textile-to-textile recycling as well as the CO_2 savings achieved as a result	
others	• fabrics that do not meet the requirements for textile-to-textile recycling are made available for collection by the customer • **Your contribution makes recycling possible. We cover all other costs - sorting the recycling materials, transport to our recycling service provider, losses.**	

Taking ecological responsibility

Textile-to-textile recycling is a pioneering step towards a circular textile economy. This sustainable solution is based on the transparent and ecologically responsible production of fabrics, a professional recycling process and the resource-saving production of new textiles.

GOF level 5 recycling:

- begins with textile production, not just with recycling
- contributes to assuming ecological responsibility in the textile industry
- is consistent environmentally conscious action, not greenwashing

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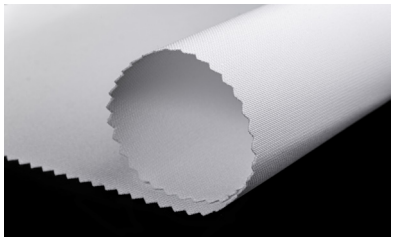
Warp-knitted fabrics from recycled polyester - our ReNew∞ product family

Fabrics made from ReNew∞ yarn are especially sustainable and of high quality. ReNew∞ yarn made from chemically processed polyester corresponds to the quality level of virgin yarn and is manufactured exclusively in Europe.

DecoTex ReNew GFS | 7048RNGFS

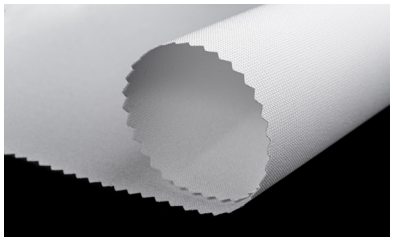
- made of 100 % ReNew∞ yarn
- advertising applications, frame systems, banner
- direct printing with sublimation inks, latex printing transfer dye-subprinting, UV printing
- flame retardant in accordance with EN 13501
- weight: 220 g/m²
- available from stock in a width of 320 cm



discover article

FrameTex ReNew GFS | 7188RNGFS

- made of 100 % ReNew∞ yarn
- advertising applications, frame systems, banner
- direct printing with sublimation inks, latex printing transfer dye-subprinting, UV printing
- flame retardant in accordance with EN 13501
- weight: 185 g/m²
- available from stock in a width of 320 cm



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Jetflag ReNew K | 6144RNK

- made of 100 % ReNew∞ Garn
- uour well-known flag fabric Jetflag optimised for best possible print-through
- direct printing with sublimation inks, transfer dye-subprinting
- weight: 110 g/m²
- available from stock in a width of 320 cm

Going Green by GOF

Contact us for more information on our recycling options and ecological initiatives.
Together we can create a more sustainable textile economy.

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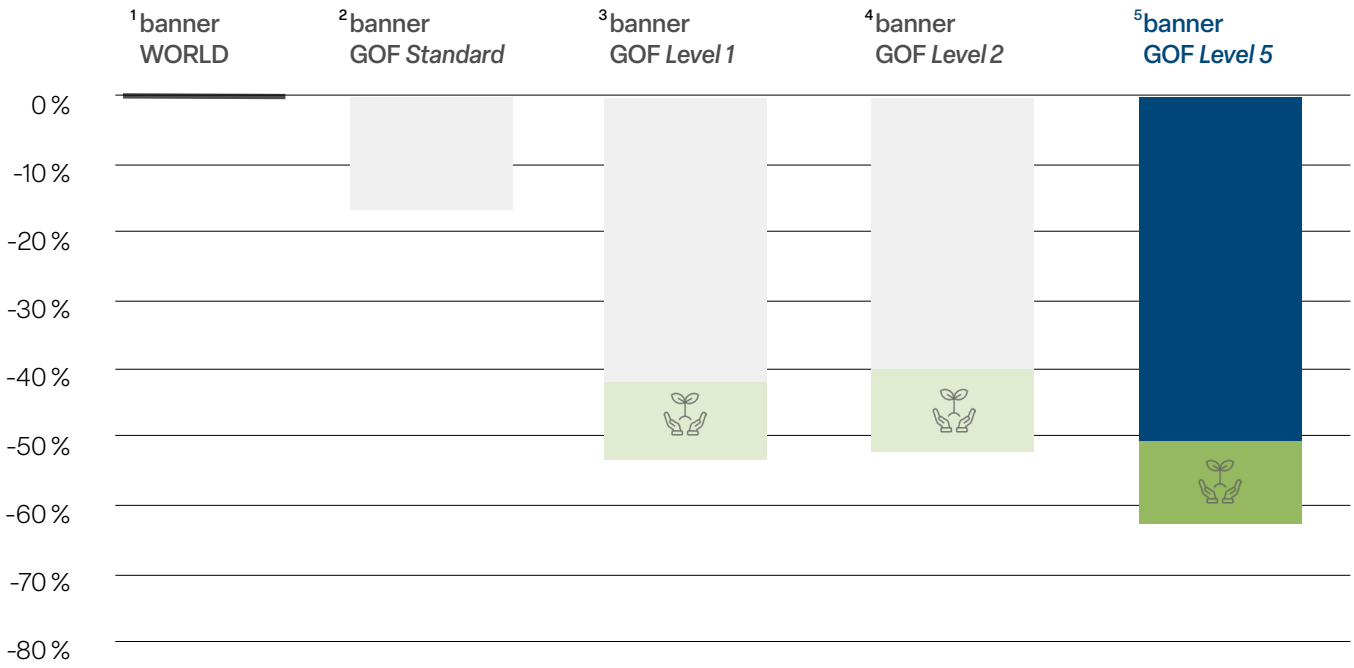
CO_2 savings compared

Calculations are based on the standard values of polyester in conjunction with current data on the global energy mix compared to primary energy consumption in Germany;
data available: https://www.worldenergy.org/ / https://ourworldindata.org/energy-mix

Further key points of analysis for banner GOF: GHG Scope 1 - 3, Institute EDENBERG, supplier information, CO_2 compensation, end-of-life (EoL)



Level 5 ReNew∞ | Textile-to-Textile Recycling **eliminates end-of-life consideration**.
The fossil carbon (crude oil) remains bound within the polyester through textile-to-textile recycling and is not released as Co_2.

At the same time, the new production of warp-knitted textiles from regenerated yarns conserves fossil resources, reduces energy consumption and cuts CO_2 emissions.

In addition, we plant a tree for every roll of our ReNew∞ fabrics sold in co-operation with our certified environmental protection partner **PLANT-MY-TREE®**.

Contact us for more information.

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[1] vPET, energy mix World incl. transportation and EoL
[2] vPET, energy mix GOF, GHG Scope 1 - 3, Institute EDENBERG, supplier information, EoL
[3] rPET, energy mix GOF, GHG Scope 1 - 3, Institute EDENBERG, supplier information, CO_2 compensation, EoL
[4] SEAQUAL®-PET, energy mix GOF, GHG Scope 1 - 3, Institute EDENBERG, supplier information, CO_2 compensation, EoL
[5] nPET, energy mix GOF, GHG Scope 1 - 3, Institute EDENBERG, supplier information, CO_2 compensation, no EoL

Explanations:

GHG Scope 1 - 3	Greenhouse Gas Protocol, recording of direct and indirect emissions over the entire product cycle
Institute EDENBERG	Edenberg Nachhaltigkeitsberatung UG under the management of Prof. Dr. Bastian Schröter
CO_2 compensation	reforestation projects with PLANT-MY-TREE®
energy mix GOF	energy mix Germany incl. renewable energies and Going Green initiatives by GOF
nPET	ReNew∞ PET (in vPET quality)

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