



# *Cirkulære Materialer*

## Titel: Cirkulære materialer

Denne publikation er udarbejdet som resultat af projektet Cirkulære Materialer under Lifestyle & Design Cluster med finansiering fra Uddannelses- og Forskningsstyrelsen.

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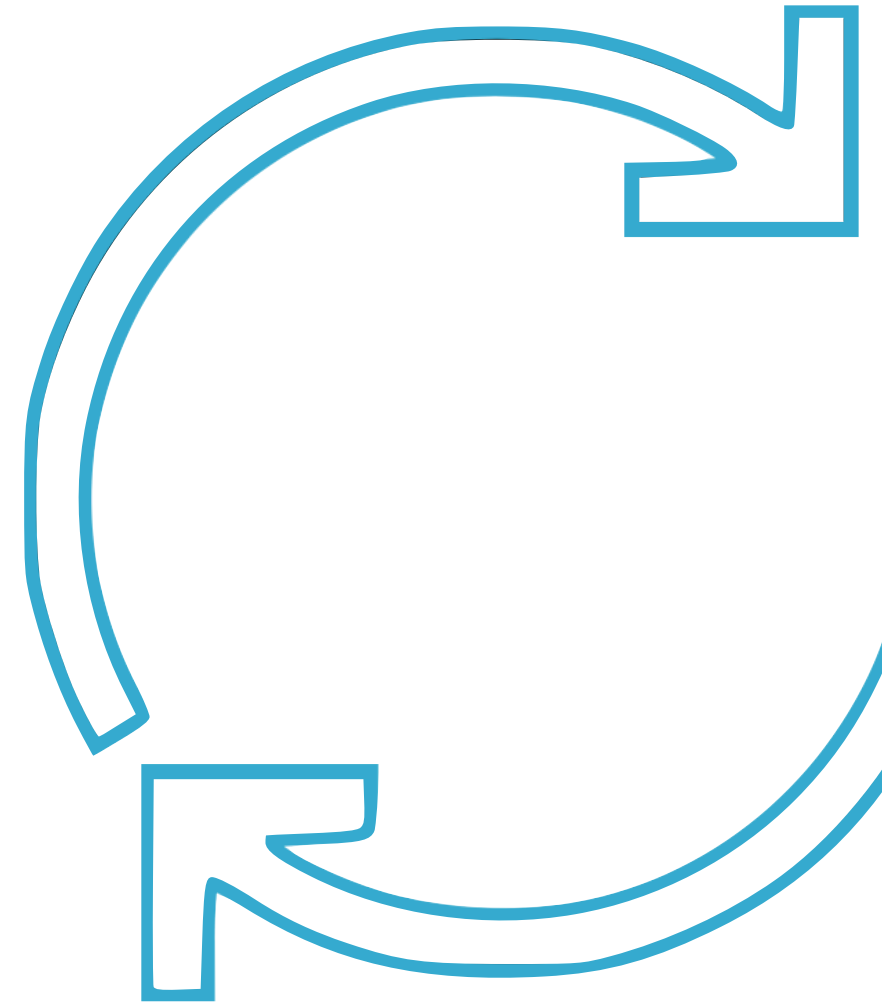
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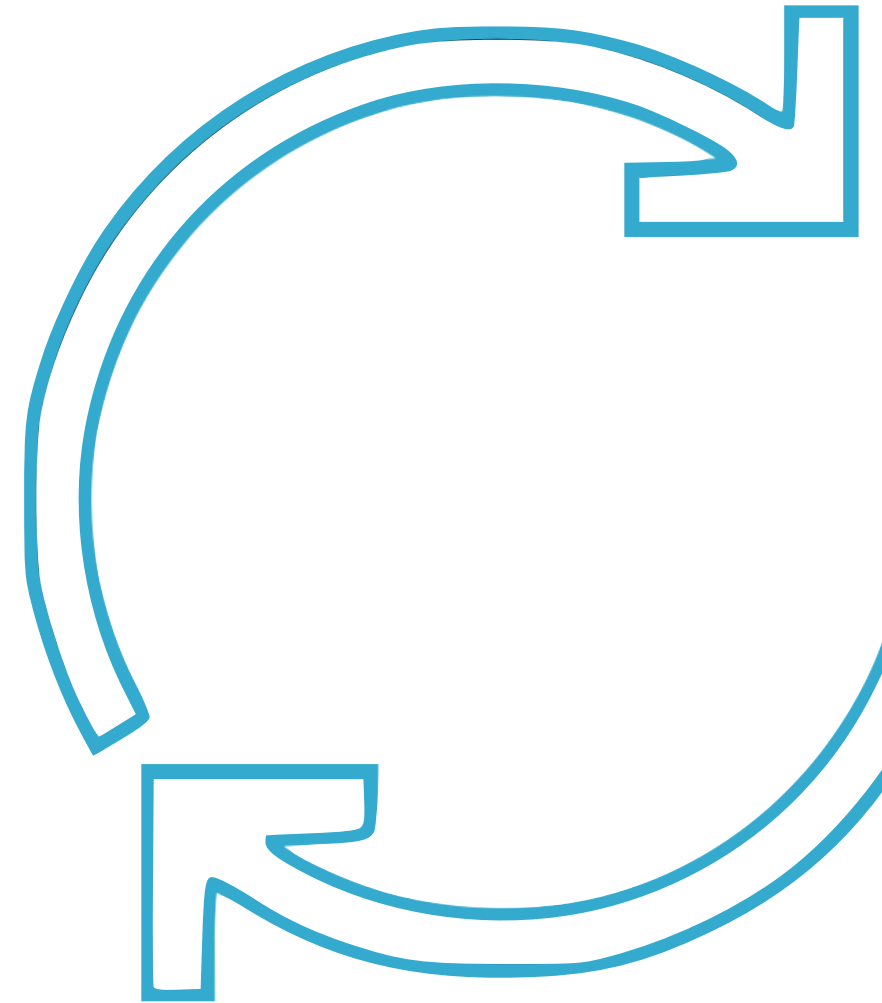
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## INDHOLD

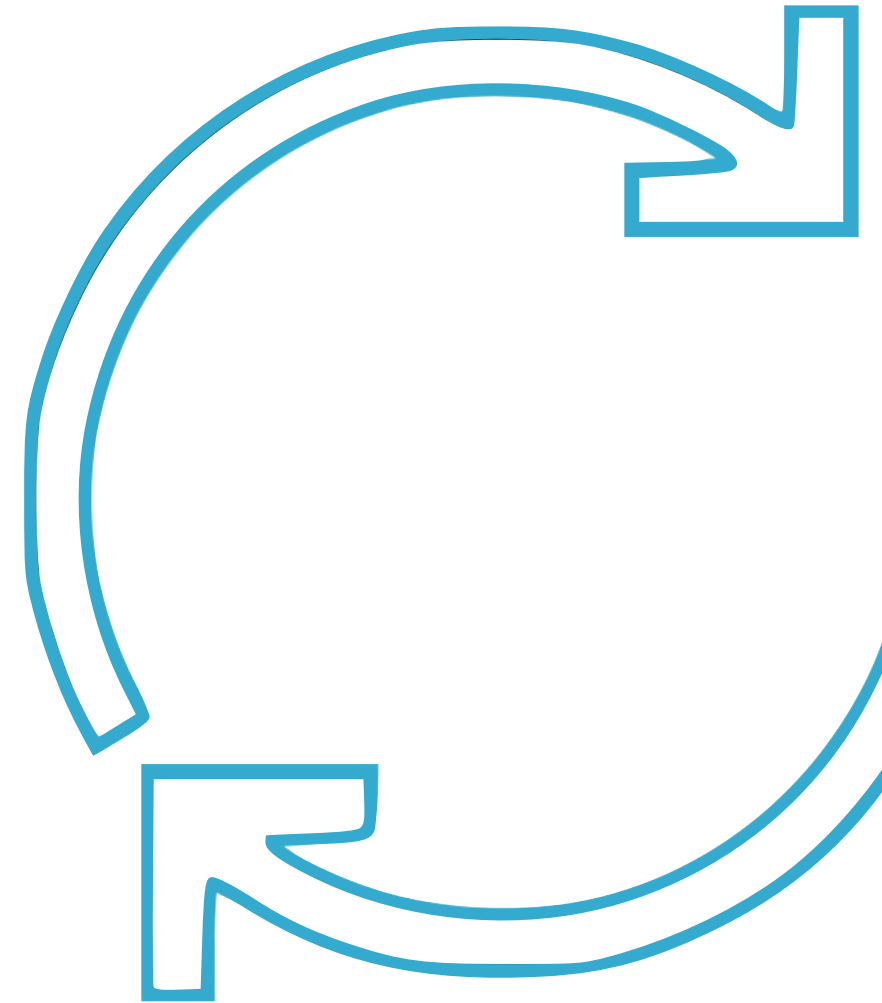
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## INDLEDNING

Dette katalog er udarbejdet på baggrund af projektet Cirkulære Materialer under Lifestyle & Design Cluster, hvor aktører der producerer og udbyder metervarer med genanvendt fiberindhold er blevet mappet. En mindre survey hos udvalgte producenter er blevet gennemført, og udvalgte metervarer er testet i laboratoriet for at få en fornemmelse af metervarenes nuværende performance.

Tanken bag dette katalog er at give en oversigt over producenterne samt en sammenfatning af resultaterne af de gennemførte test.



## METODE

I denne kortlægning har vi taget udgangspunkt i OEKO-TEX® Buying Guide for certificerede og testede produkter. Den er tilgængelig for alle via nedenstående link. Her kan man bl.a. finde metervarer som består helt eller delvist af recyclede materialer og som er farvede, trykte og/eller finish-behandlede klar til videre forarbejdning og som er certificeret i hht. kravene og med sporbarhed i hele kæden. I andre certificeringer som ex. BlueSign® testes også en del for indhold af restkemi på recyclede fibre og på færdige certificerede produkter, men der findes ingen database på færdigt stof. GRS, Global Recycled Standard, tester også noget på de recyclede fibermaterialer, men ikke på de færdige farvede og finish-behandlede metervarer og der findes ikke nogen samlet database.

<https://www.oeko-tex.com/en/buying-guide>

<https://www.bluesign.com/en/>

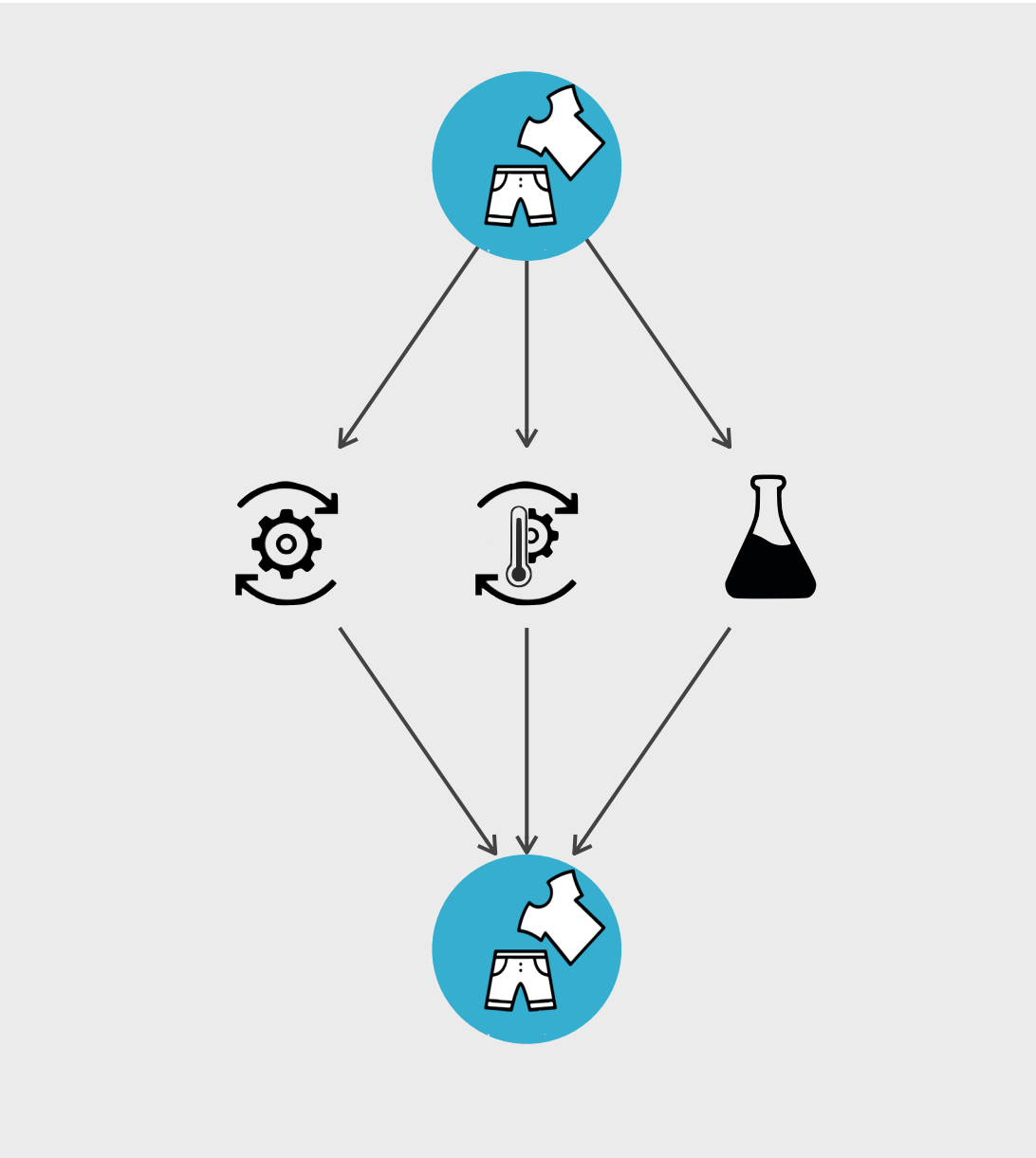
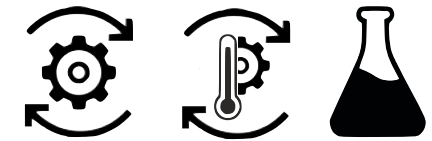
<https://www.controlunion.com/certification-program/grs-global-recycled-standard/>

<https://textileexchange.org/recycled-claim-global-recycled-standard/>

# SYMBOLFORKLARING

	Mekanisk recycling		OEKO-TEX® STANDARD 100		Organic Content Standard
	Termomekanisk recycling		OEKO-TEX® STeP		Regenerative Certified
	Kemisk recycling		Recycled Claim Standard		Global Recycled Standard
	Vævet kvalitet		Global Organic Textile Standard		Cradle to Cradle Certified
	Strikket kvalitet		BlueSign Certification		

## TEKSTIL TIL TEKSTIL GENANVENDELSE



Tekstilaffald kan omdannes til nye tekstilfibre og garner gennem tre forskellige genanvendelsesteknologier; mekanisk, termomekanisk og kemisk genanvendelse. I øjeblikket er det hovedsageligt mekanisk og i mindre målestok termomekanisk genanvendelse der anvendes. Kemisk genanvendelse er stadig på pilotskala. Mekanisk genanvendelse involverer handlinger, der ned-deler, river og åbner tekstilerne, mens kemisk genanvendelse involverer processer, der de-polymeriserer tekstilaffald til kemiske monomerer eller polymerer, der kan bruges til produktion af nye fibre.

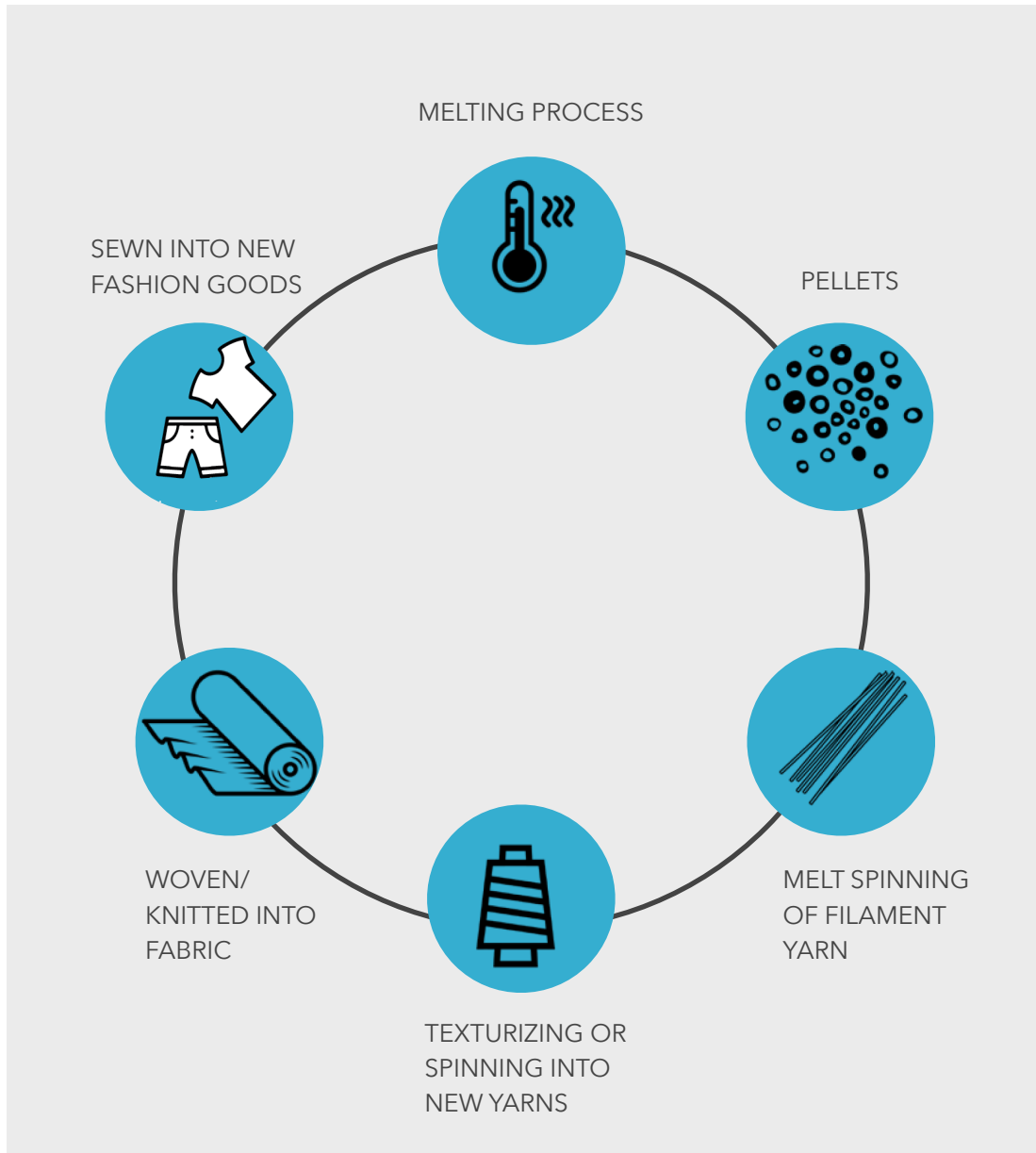
# MEKANISK GENANVENDELSE



Mekanisk genanvendelse har været anvendt i en årrække til at omdanne tekstilaffald til ikke-vævede materialer (f.eks. isolerings-materialer til bygge- eller bilindustrien). Først inden for de seneste år er der udviklet teknologier, der kan genanvende tekstilaffald til fibre, der kan spindes til garner, og i første omgang baseret på postindustrielt tekstilaffald. Mekanisk genanvendte fibre har ikke samme egenskaber og kvalitet som virgin fibre, og kræver derfor at de blandes med nye fibre for at opnå en tilstrækkelig kvalitet.



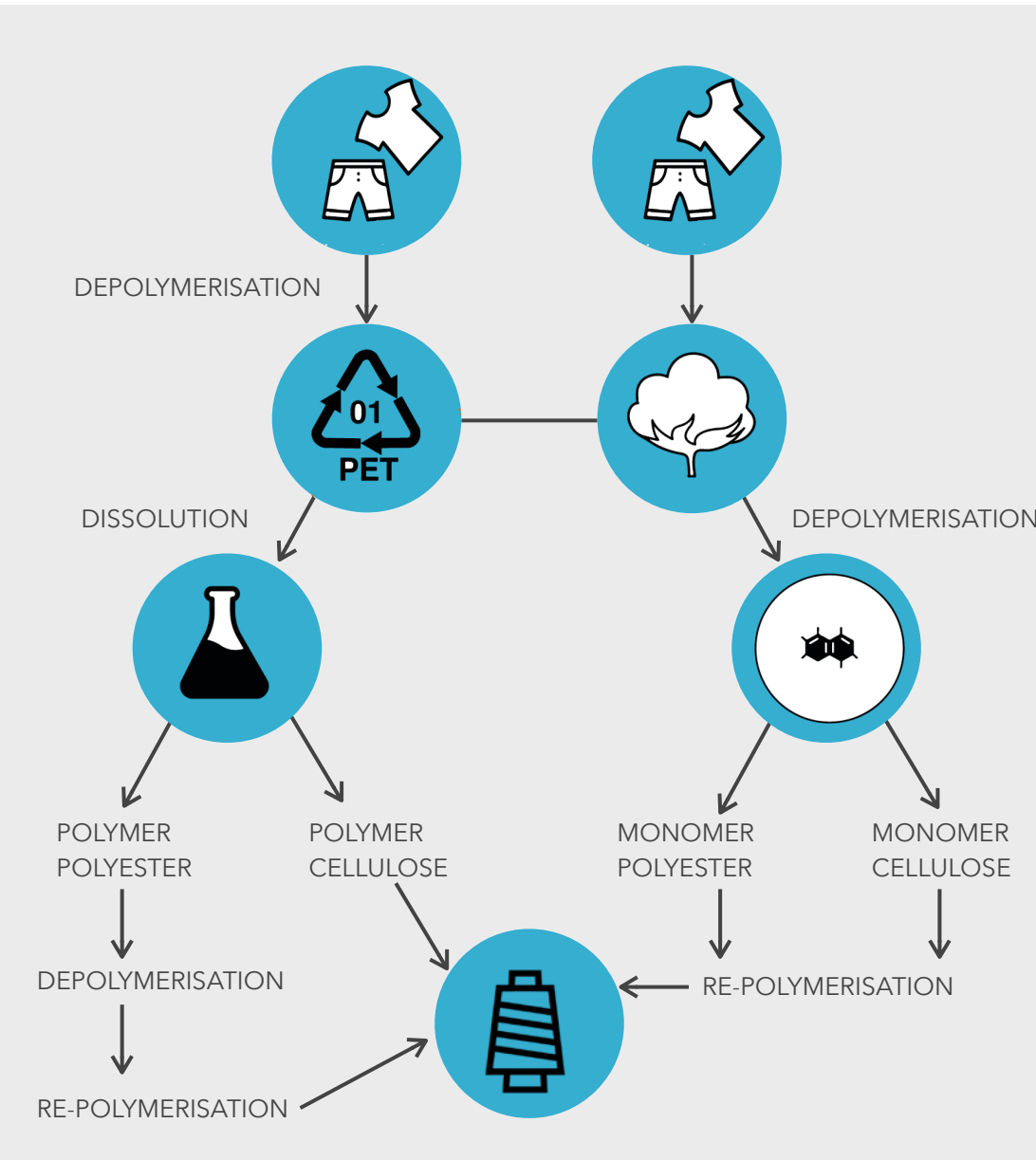
# TERMOMEKANISK GENANVENDELSE



Termomekanisk genanvendelse har også været anvendt i en årrække. Størstedelen (<90%) af det polyesterstof med genanvendt materiale, som findes på markedet i dag, er dog lavet af polyesterfibre på basis af PET-plastikflasker, som er en forholdsvis enkel og frem for alt, billig genanvendelsesproces.

Fremadrettet varsles det dog af EU's tekstilstrategi, at PET-flasker fremover skal genbruges til flasker eller anden fødevareremballage, mens tekstilaffald, som også er en dyrebar ressource, skal laves til nye tekstiler. Det er nødvendigt med lovgivning på området for at få genanvendt den enorme mængde af kasserede tekstiler, hvoraf polyester udgør over 50%. Nogle certificerings-organer overvejer allerede nu at man ikke kan certificeres, hvis de genanvendte produkter er baseret på PET-flasker.

# KEMISK GENANVENDELSE



Kemisk genanvendelse af tekstilaffald er stadig i sin begyndelse, og der er mange forskellige teknologier til kemisk genanvendelse. Der er efterhånden ved at dukke flere kommercielle faciliteter op til genanvendelse af tekstilaffald baseret på cellulose, som ex. bomuld der omdannes til viskose og Lyocell. Kemisk genanvendelse af polyester og polyester-blends er stadig i sin vorden, og der er kun nogle ganske få kommercielle aktører, mens mange innovatører arbejder på at udvikle teknologier, der både er teknisk og økonomisk skalerbare.

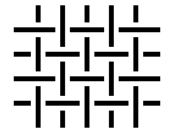
## POLYESTER/COTTON BLENDS

There are three ways of chemical recycling; polyester and polyester/cotton blends:

1. Solvent-based dissolution
2. Hydrothermal
3. Enzymatic, also known as biochemical recycling.

# TESTRESULTATER - VÆVEDE METERVARER

Mekanisk tekstil til tekstil genanvendelse, performance



## Weight DS/EN 12127:1998

Average g/m2	Variation g/m2
250	235-270

Gennemsnitsværdier for 8 vævede metervarer med 24% til 80% post-consumer genanvendt CO/PES indhold.

## Martindale abrasion resistance acc. To DS/EN ISO 12945-2:2020

Rubs	Variation rubs
38.000	31.000-43.000

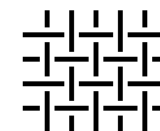
Testresultaterne er baseret på meget få test. Resultaterne understøtter dog andre test, der viser at metervarer med genanvendt indhold generelt kan opnå testresultater, der er sammenlignelige med metervarer baseret på nye materialer. Undtagelsen er dog pilling-tendensen, som generelt er noget højere på materialer med genanvendt indhold.

## Tear strength ElmaTear DS/EN ISO 13937-1:2000

N	Variation N
55	40-90

# TESTRESULTATER - VÆVEDE METERVARER

## Mekanisk tekstil til tekstil genanvendelse, performance



### Determination of fabric propensity to surface pilling Martindale method acc. to DS/EN ISO 12945-2:202

Revs	Pilling grade	Fuzzing grade	Matting grade
125	3-4	3	3-4
500	3	2-3	3-4
1000	2-3	2-3	3
2000	2	2	2-3

Gennemsnitsværdier for 8 vævede metervarer med 24% til 80% post-consumer genanvendt CO/PES indhold.

### Colourfastness to washing acc. To DS/EN ISO 105-C06:2010

Staining at multi-fiber ISO 105-A03	
	Grade
Colur change ISO 105-A02	4-5

Grades from 1-5. 5 is best. Wash at 40°C

### Colourfastness to rubbing DS/EN ISO 105-X12:2016

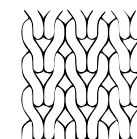
Colour change ISO 105-A02	Grade
Dry rubbing	4-5
Wet rubbing	3-4

Grades from 1-5. 5 is best.

Testresultaterne er baseret på meget få test. Resultaterne understøtter dog andre test, der viser at metervarer med genanvendt indhold generelt kan opnå testresultater, der er sammenlignelige med metervarer baseret på nye materialer. Undtagelsen er dog pilling-tendensen, som generelt er noget højere på materialer med genanvendt indhold.

# TESTRESULTATER - STRIKKEDE METERVARER

## Mekanisk tekstil til tekstil genanvendelse, performance



### Weight DS/EN 12127:1998

Average g/m <sup>2</sup>	Variation g/m <sup>2</sup>
260	140-340

Gennemsnitsværdier for 8 strikkede metervarer med fra 30% post-consumer genanvendt CO eller CO/PES indhold.

### Bursting strength acc. to. DS/EN ISO 13938-1:1999

kPa	Variation kPa
185	160-230

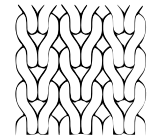
Testresultaterne er baseret på meget få test. Resultaterne understøtter dog andre test, der viser at metervarer med genanvendt indhold generelt kan opnå testresultater, der er sammenlignelige med metervarer baseret på nye materialer. Undtagelsen er dog pilling-tendensen, som generelt er noget højere på materialer med genanvendt indhold.

### Determination of fabric propensity to surface pilling ICI method acc. to. DS/EN ISO 12945-1:2020

Revs.	Pilling grade	Fuzzing grade	Matting grade
18.000	2-3	2-3	3

# TESTRESULTATER - STRIKKEDE METERVARER

## Mekanisk tekstil til tekstil genanvendelse, performance



### Colourfastness to washing acc. To DS/EN ISO 105-C06:2010

Staining at multi-fiber ISO 105-A03	
	Grade
Colour change ISO 105-A02	4

Grades from 1-5. 5 is best. Wash at 40°C

### Colourfastness to rubbing DS/EN ISO 105-X12:2016

Colour change ISO 105-A02	Grade
Dry rubbing	5
Wet rubbing	4-5

Grades from 1-5. 5 is best.

Gennemsnitsværdier for 8 strikkede metervarer med fra 30% post-consumer genanvendt CO eller CO/PES indhold.

Testresultaterne er baseret på meget få test. Resultaterne understøtter dog andre test, der viser at metervarer med genanvendt indhold generelt kan opnå testresultater, der er sammenlignelige med metervarer baseret på nye materialer. Undtagelsen er dog pilling-tendensen, som generelt er noget højere på materialer med genanvendt indhold.

## LEVERANDØR SURVEY

### Dataindsamling og metode

På de følgende sider fremgår resultaterne af den frivillige survey, som vi har foretaget i forbindelse med projektet. Virksomhederne har besvaret 18 spørgsmål vedrørende deres brug af genanvendt materiale, kvaliteten af de metervarer, som de producerer samt deres forventede vækst på markedet (forecast 2025 og 2030).

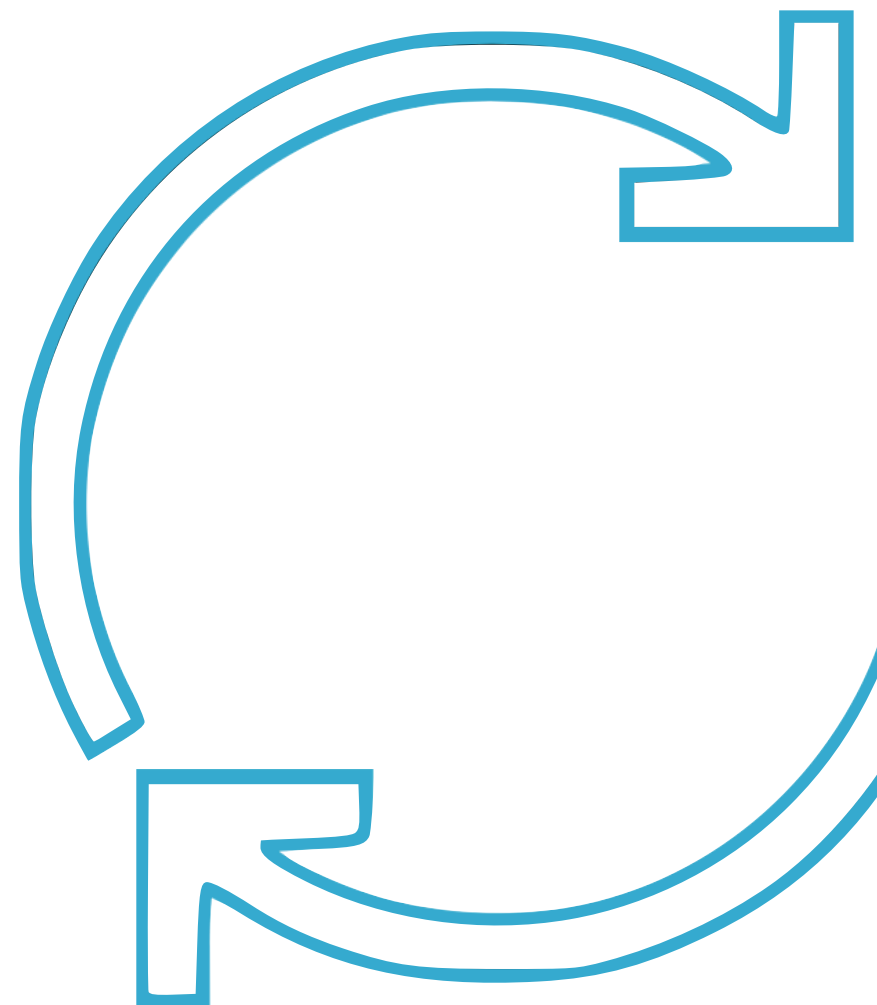
Resultatet er 14 survey besvarelser for Q3 2024.

Herefter følger et katalog over 321 leverandører i hele verden. Listen tager afsæt i OEKO-TEX® Buying Guide for certificerede og testede produkter og giver et udførligt overblik over hvilke typer kvaliteter de respektive leverandører producerer.

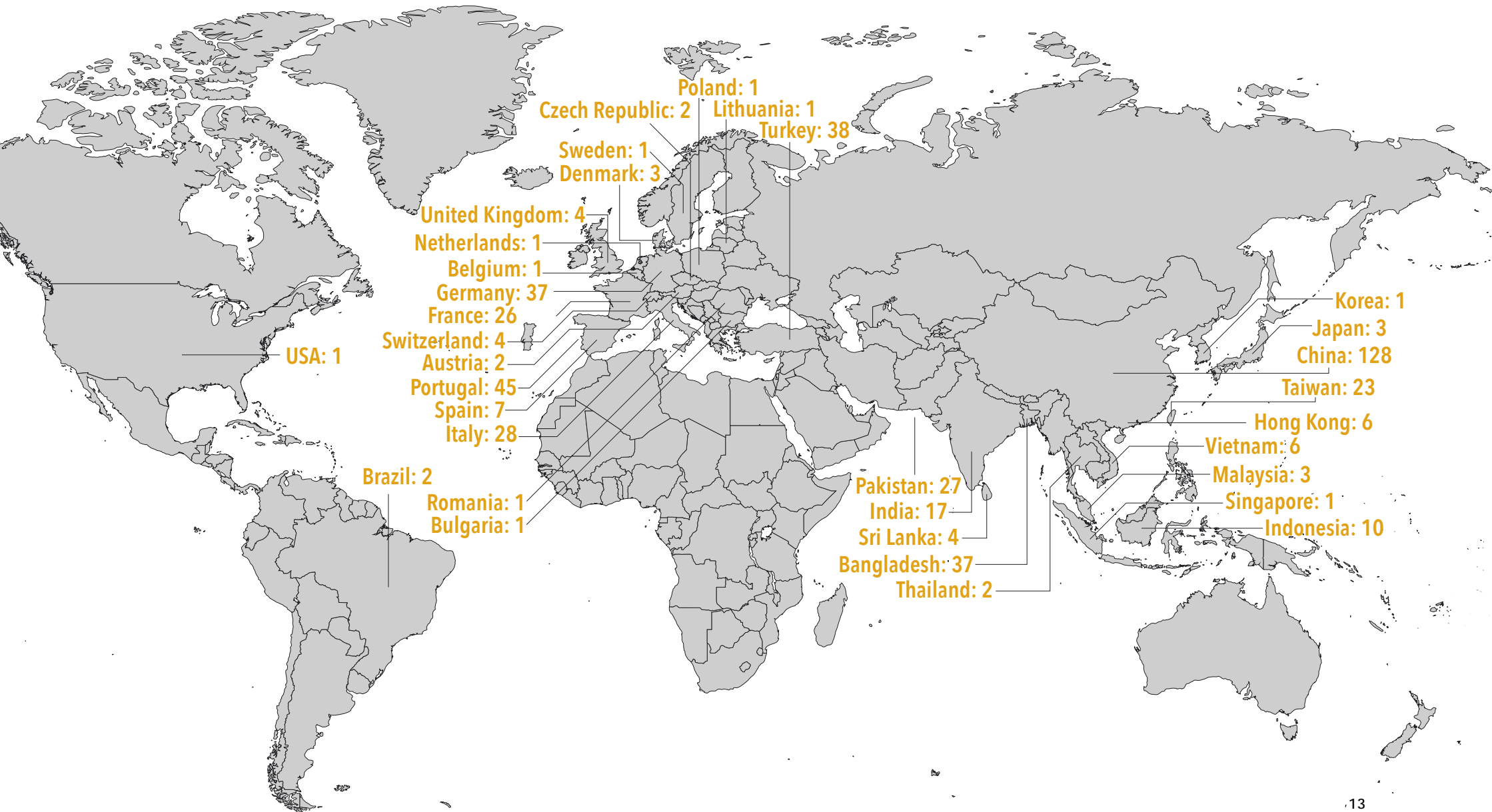
#### Indsamling af data:

Genanvendt materiale - OEKO-TEX STANDARD 100 certificerede tekstile produkter og rapport for fiber-til-fiber genanvendelse.

*Kilde: Oekotex, Research and identification of textile plants globally - focusing on fibre-to fibre recycling for the fashion & textile industry, LDC, TI, VIA 2022.*

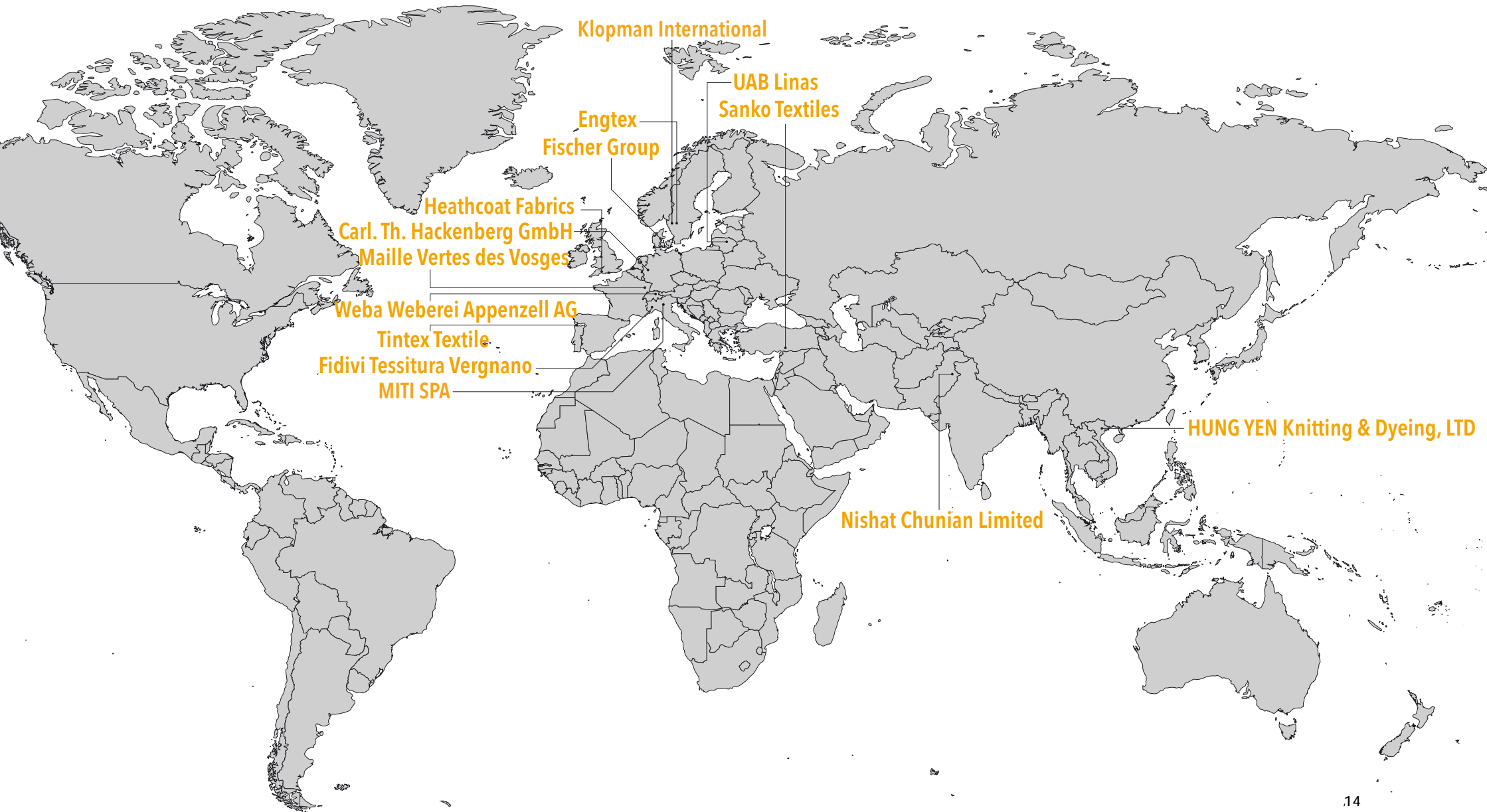


# LEVERANDØROVERSIGT, LANDEFORDELING





# LEVERANDØROVERSIGT, SURVEY BESVARELSER





**Company:** Carl. Th. Hackenberg GmbH

**Country:** Germany

**Web:** <https://hackenberg-group.de/en/>

**Contact:** [band@hackenberg-group.de](mailto:band@hackenberg-group.de)

### FABRIC TYPE

**Finished fabrics:** Knitted & Woven. Woven tapes customised according to customer requirements

**Fabric type:** Single jersey, Flat knit, Circular knit. Plain, twill, Jacquard

**Type of recycled materiales:** Natural cellulosic fibres, synthetic fibres, natural animal/protein fiber, regenerated fiber

### TECHNOLOGY

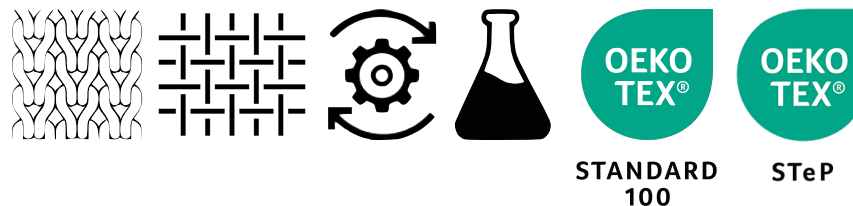
**Technology:** Mechanical & Chemical recycling

**Mechanically recycling, spinning method:**

According to customer requirements

**Chemically recycling, spinning method:**

According to customer requirements



### MATERIAL COMPOSITION & TOLERANCES

**Percentages of material composition that can be recycled content:** 75-100%

**Ability to deliver the same quality from batch to batch:** Yes

**Tolerances regarding colors from batch to batch:** Minimalle

### PRODUCTION CAPACITY & CERTIFICATIONS

**Quantity of fabric with recycled content produced pr year:** -

**Expected quantity for 2025:** -

**Expected quantity for 2030:** -

**Certifications for recycled products:** OEKO-TEX STANDARD 100, OEKO-Step



**Company:** Engtex  
**Country:** Sweden  
**Web:** <https://engtex.com/>  
**Contact:** info@engtex.se

#### FABRIC TYPE

**Finished fabrics:** Knitted, mainly to personal protection equipment

**Fabric type:** Warp knitted and weft insertion warp knit

**Type of recycled materiales:** Synthetic fibres

#### TECHNOLOGY

**Technology:** Mechanical recycling

**Mechanically recycling, spinning method:**  
Extrusion

**Chemically recycling, spinning method:**  
-



#### MATERIAL COMPOSITION & TOLERANCES

**Percentages of material composition that can be recycled content:** 75-100%

**Ability to deliver the same quality from batch to batch:** Yes

**Tolerances regarding colors from batch to batch:**

#### PRODUCTION CAPACITY & CERTIFICATIONS

**Quantity of fabric with recycled content produced pr year:**  
approx. 200.000 m/year

**Expected quantity for 2025:** 225.000 m/year

**Expected quantity for 2030:** 250.000 m/year

**Certifications for recycled products:** GRS, OEKO-TEX STANDARD 100. Wash fastness specification & yarn specifications.

# FIDIVI\*



**Company:** Fidivi

**Country:** Italy

**Web:** <https://www.fidivi.com/en/>

**Contact:** info@fidivi.com

## FABRIC TYPE

**Finished fabrics:** Woven. Technical fabrics for office (not fashion and brands). B2B.

**Fabric type:** Plain, Jacquard

**Type of recycled materiales:** Natural cellulosic fibres, Synthetic fibres

## TECHNOLOGY

**Technology:** Thermal recycling, polyester yarn from post-consumer PET-bottles

**Mechanically recycling, spinning method:**  
Air Jet or other spinning method

**Chemically recycling, spinning method:** -

## MATERIAL COMPOSITION & TOLERANCES

**Percentages of material composition that can be recycled content:** 75-100%

**Ability to deliver the same quality from batch to batch:** Yes

**Tolerances regarding colors from batch to batch:**  
Delta E <0.5

## PRODUCTION CAPACITY & CERTIFICATIONS

**Quantity of fabric with recycled content produced pr year:**  
100.000 meters in 2023

**Expected quantity for 2025:** 150.000

**Expected quantity for 2030:** -

**Certifications for recycled products:** GRS, OEKO-TEX STANDARD 100. Martindale specification.



**Company:** Fischer Group

**Country:** Denmark

**Web:** <https://www.fischergroup.dk/>

**Contact:** fischer@fischer-international.dk

## FABRIC TYPE

**Finished fabrics:** Woven

**Fabric type:** Plain

**Type of recycled materiales:** Natural cellulosic fibres, Synthetic fibres, Natural animal/protein fiber

## TECHNOLOGY

**Technology:** Mechanical & Chemical recycling

**Mechanically recycling, spinning method:**

Ring spinning

**Chemically recycling, spinning method:**

Ring spinning

## MATERIAL COMPOSITION & TOLERANCES

**Percentages of material composition that can be recycled content:** 50-75%, 75-100%

**Ability to deliver the same quality from batch to batch:** Yes

**Tolerances regarding colors from batch to batch:**  
Evaluated for each batch

## PRODUCTION CAPACITY & CERTIFICATIONS

**Quantity of fabric with recycled content produced pr year:**  
30.000 m/year, 3m width ~ 15 tons

**Expected quantity for 2025:** 35.000

**Expected quantity for 2030:** 50.000

**Certifications for recycled products:** GRS, OEKO-TEX STANDARD 100. Wash fastness specification.



**Company:** Heathcoat Fabrics

**Country:** United Kingdom

**Web:** <https://www.heathcoat.co.uk/>

**Contact:** info@heatcoat.co.uk

#### FABRIC TYPE

**Finished fabrics:** Knitted

**Fabric type:** Warp knit

**Type of recycled materiales:** Synthetic fibres

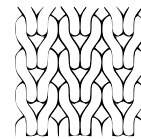
#### TECHNOLOGY

**Technology:** Chemical recycling

**Mechanically recycling, spinning method:**

**Chemically recycling, spinning method:**

Ring spinning, DTY & Air-texturized



STANDARD  
100

#### MATERIAL COMPOSITION & TOLERANCES

**Percentages of material composition that can be recycled content:** 75-100%

**Ability to deliver the same quality from batch to batch:** Yes

**Tolerances regarding colors from batch to batch:** We have a set internal standard to match to for each batch produced

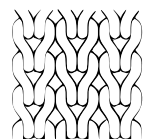
#### PRODUCTION CAPACITY & CERTIFICATIONS

**Quantity of fabric with recycled content produced pr year:** 30.000 meters/year

**Expected quantity for 2025:** 60.000 meters/year

**Expected quantity for 2030:** 120.000 meters/year

**Certifications for recycled products:** GRS, OEKO-TEX STANDARD 100. Specifications for Martindale, Piling, Rub fastness, Wash fastness & Yarn specifications



STANDARD  
100

**Company:** HUNG YEN Knitting & Dyeing, LTD

**Country:** Vietnam

**Web:** <https://hungyen-kd.com/>

**Contact:** info@hungyen-kd.com

#### FABRIC TYPE

**Finished fabrics:** Knitted

**Fabric type:** Warp-knitting

**Type of recycled materiales:** Synthetic fibres

#### TECHNOLOGY

**Technology:** Chemical, re-polymerization

**Mechanically recycling, spinning method:**

**Chemically recycling, spinning method:**

Ring spinning & DTY

#### MATERIAL COMPOSITION & TOLERANCES

**Percentages of material composition that can be recycled content:** 75-100%

**Ability to deliver the same quality from batch to batch:** Yes

**Tolerances regarding colors from batch to batch:**  
Delta E <0.7

#### PRODUCTION CAPACITY & CERTIFICATIONS

**Quantity of fabric with recycled content produced pr year:**  
16 million meters/year

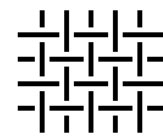
**Expected quantity for 2025:** 18 million meters/year

**Expected quantity for 2030:** 20 million meters/year

**Certifications for recycled products:** GRS, OEKO-TEX STANDARD 100. Specifications for Martindale, Piling, Rub fastness, Wash fastness & Yarn specifications



**KLOPMAN INTERNATIONAL**  
QUALITY THAT WORKS



STANDARD  
100

**Company:** Klopman International Branch Scandinavia

**Country:** Sweden (headquarter in Italy)

**Web:** <https://www.klopman.com/>

**Contact:** sales@klopman.com

#### FABRIC TYPE

**Finished fabrics:** Woven

**Fabric type:** Plain, Twill

**Type of recycled materiales:** Natural cellulosic fibres,  
Synthetic fibres

#### TECHNOLOGY

**Technology:** Mechanical recycling

**Mechanically recycling, spinning method:**  
Rotor Spinning

**Chemically recycling, spinning method:**

-

#### MATERIAL COMPOSITION & TOLERANCES

**Percentages of material composition that can be recycled content:** 0-25%

**Ability to deliver the same quality from batch to batch:** Yes

**Tolerances regarding colors from batch to batch:**  
Same as for virgin. Standard for workwear.

#### PRODUCTION CAPACITY & CERTIFICATIONS

**Quantity of fabric with recycled content produced pr year:**  
Few thousand meters.

**Expected quantity for 2025:** -

**Expected quantity for 2030:** -

**Certifications for recycled products:** GRS, RCS, OEKO-TEX  
STANDARD 100





**Company:** Maille Verte Vosgienne

**Country:** France

**Web:** <https://www.mvvosges.eu/>

**Contact:** info@mvvosges.eu

#### FABRIC TYPE

**Finished fabrics:** Knitted

**Fabric type:** Single jersey, Pique, Circular knit

**Type of recycled materiales:** Synthetic fibres

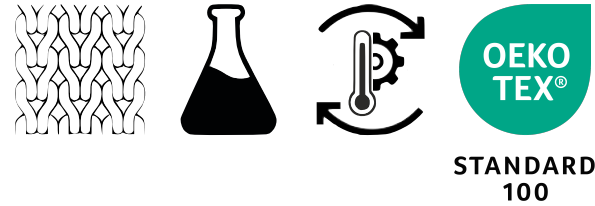
#### TECHNOLOGY

**Technology:** Thermal & Chemical recycling

**Mechanically recycling, spinning method:**

**Chemically recycling, spinning method:**

DTY, Air-texturized



#### MATERIAL COMPOSITION & TOLERANCES

**Percentages of material composition that can be recycled content:** 50-75%

**Ability to deliver the same quality from batch to batch:** Yes

**Tolerances regarding colors from batch to batch:**  
DE <= 1.2

#### PRODUCTION CAPACITY & CERTIFICATIONS

**Quantity of fabric with recycled content produced pr year:**  
90.000 m/year

**Expected quantity for 2025:** +10%

**Expected quantity for 2030:** +25%

**Certifications for recycled products:** OEKO-TEX  
STANDARD 100



*KNITTING INNOVATION*

**Company:** MITI SPA

**Country:** Italy

**Web:** <https://mitispa.com/>

**Contact:** [marketing@mitispa.it](mailto:marketing@mitispa.it)

### FABRIC TYPE

**Finished fabrics:** Knitted, for sport, fashion & activewear

**Fabric type:** Single Jersey, Double Jersey, Circular knit, Warp knit

**Type of recycled materiales:** Polyester, Polyamide, Elastane

### TECHNOLOGY

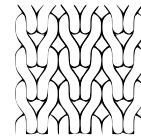
**Technology:** Mechanical & Chemical recycling

**Mechanically recycling, spinning method:**

Ring spinning

**Chemically recycling, spinning method:**

Ring spinning and DTY



STANDARD  
100

### MATERIAL COMPOSITION & TOLERANCES

**Percentages of material composition that can be recycled content:** 50-75%

**Ability to deliver the same quality from batch to batch:** Yes

**Tolerances regarding colors from batch to batch:**  
Delta E <1

### PRODUCTION CAPACITY & CERTIFICATIONS

**Quantity of fabric with recycled content produced pr year:**  
1 million meters/year

**Expected quantity for 2025:** 2 million meters/year

**Expected quantity for 2030:** 3 million meters/year

**Certifications for recycled products:** GRS, OEKO-TEX  
STANDARD 100



NISHAT  
CHUNIAN  
GROUP



**Company:** Nishat Chunian

**Country:** Pakistan

**Web:** <https://www.nishat.net/>

**Contact:** +92 42 35761730-9

#### FABRIC TYPE

**Finished fabrics:** Woven

**Fabric type:** Twill

**Type of recycled materiales:** Cotton

#### TECHNOLOGY

**Technology:** Mechanical recycling

**Mechanically recycling, spinning method:**

Ring spinning, rotor spinning

**Chemically recycling, spinning method:** -

#### MATERIAL COMPOSITION & TOLERANCES

**Percentages of material composition that can be recycled content:** 0-25%

**Ability to deliver the same quality from batch to batch:** No

**Tolerances regarding colors from batch to batch:**

Small variations as blend of cotton types varies from batch to batch

#### PRODUCTION CAPACITY & CERTIFICATIONS

**Quantity of fabric with recycled content produced pr year:** -

**Expected quantity for 2025:** -

**Expected quantity for 2030:** -

**Certifications for recycled products:** OEKO-TEX STANDARD 100, GOTS



**Company:** Sanko Textile

**Country:** Türkiye

**Web:** <https://www.sankotextile.com/en/>

**Contact:** marketing@sanko.com.tr

### FABRIC TYPE

**Finished fabrics:** Knitted

**Fabric type:** Single Jersey, Interlock, Pique, Fleece, Velour, Terry

**Type of recycled materiales:** Cotton

### TECHNOLOGY

**Technology:** Mechanical and chemical recycling

**Mechanically recycling, spinning method:**

Ring, rotor and Air Jet

**Chemically recycling, spinning method:**

Ring, rotor and Air Jet

### MATERIAL COMPOSITION & TOLERANCES

**Percentages of material composition that can be recycled content:** 25-50%

**Ability to deliver the same quality from batch to batch:** Yes

**Tolerances regarding colors from batch to batch:** -

### PRODUCTION CAPACITY & CERTIFICATIONS

**Quantity of fabric with recycled content produced pr year:**

-

**Expected quantity for 2025:** -

**Expected quantity for 2030:** -

**Certifications for recycled products:** GRS, RCS, GOTS, OEKO-TEX STANDARD 100, CRADLE TO CRADLE, REGENAGRI



**Company:** Tintex Textiles

**Country:** Portugal

**Web:** <https://tintextextiles.com/>

**Contact:** info@tintextextiles.com

### FABRIC TYPE

**Finished fabrics:** Knitted

**Fabric type:** Single Jersey, Double Jersey, Pique, Interlock, French Terry, Jacquard

**Type of recycled materiales:** Cotton, linen, hemp, piná, sisal, Recycled cellulosic (natural and regenerated), synthetic and animal fibers

### TECHNOLOGY

**Technology:** We use recycled fibers obtained from chemical and mechanical processes

**Mechanically recycling, spinning method:**  
Mainly Ring spinning and Air Jet

**Chemically recycling, spinning method:**  
Spun yarns: Ring spinning and Air Jet

### MATERIAL COMPOSITION & TOLERANCES

**Percentages of material composition that can be recycled content:** 50-75%

**Ability to deliver the same quality from batch to batch:** No

**Tolerances regarding colors from batch to batch:**  
Delta E <0.5

### PRODUCTION CAPACITY & CERTIFICATIONS

**Quantity of fabric with recycled content produced pr year:**  
ca. 100.000 meters/year

**Expected quantity for 2025:** 400.000 meters/year

**Expected quantity for 2030:** 2.500.000 meters/year

**Certifications for recycled products:** Our recycled products can be certified for GRS, RCS, OEKO-TEX STANDARD 100, GOTS, OCS, BLUESIGN



**Company:** UAB Linas LT

**Country:** Lithuania

**Web:** <https://linas.lt/>

**Contact:** [office@linas.lt](mailto:office@linas.lt)

## FABRIC TYPE

**Finished fabrics:** Woven

**Fabric type:** Plain, Twill, Jacquard

**Type of recycled materiales:** Natural cellulosic fibres

## TECHNOLOGY

**Technology:** Mechanical recycling

**Mechanically recycling, spinning method:**

Ring spinning

**Chemically recycling, spinning method:**

-



## MATERIAL COMPOSITION & TOLERANCES

**Percentages of material composition that can be recycled content:** 0-100%

**Ability to deliver the same quality from batch to batch:** Yes

**Tolerances regarding colors from batch to batch:** Up to delta 2. Depend on chosen yarn. Usually up to delta 1

## PRODUCTION CAPACITY & CERTIFICATIONS

**Quantity of fabric with recycled content produced pr year:** up to 10.000 meters

**Expected quantity for 2025:** We can increase up to 500.000 meters/year, if there is a need in the market

**Expected quantity for 2030:** Up to 1 million if demanded

**Certifications for recycled products:** GRS, RCS, OEKO-TEX STANDARD 100

**Company:** Weba Weberei Appenzell AG

**Country:** Switzerland

**Web:** <https://weba.ch/>

**Contact:** info@weba.ch

## FABRIC TYPE

**Finished fabrics:** Woven

**Fabric type:** -

**Type of recycled materiales:** Natural cellulosic fibres,  
Regenerated fibres

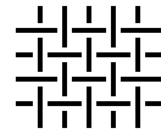
## TECHNOLOGY

**Technology:** Chemical recycling

**Mechanically recycling, spinning method:**

**Chemically recycling, spinning method:**

Ring spinning



## MATERIAL COMPOSITION & TOLERANCES

**Percentages of material composition that can be recycled content:** 25-50%

**Ability to deliver the same quality from batch to batch:** Yes

**Tolerances regarding colors from batch to batch:**

## PRODUCTION CAPACITY & CERTIFICATIONS

**Quantity of fabric with recycled content produced pr year:** -

**Expected quantity for 2025:** -

**Expected quantity for 2030:** 5.000 meters/year

**Certifications for recycled products:** GRS, OEKO-TEX STANDARD 100, Step by OEKO-TEX, GOTS

# LEVERANDØRKATALOG

## ASIEN

Company	Knit	Woven	Coated	Lining	Country	Contact	Web
ACS Textiles					Bangladesh	info@acstextiles.com	<a href="http://www.acstextiles.com/">http://www.acstextiles.com/</a>
Advance Denim Co, Ltd					China	<a href="mailto:text@advancedenim.com">text@advancedenim.com</a> <a href="mailto:Jennifer@advancedenim.com">Jennifer@advancedenim.com</a>	
AL - Karam Textile Mills Ltd					Pakistan	<a href="mailto:CONTACT@ALKARAM.COM">CONTACT@ALKARAM.COM</a>	
AL-HADI Textile					Pakistan		
Almodo Altunlar Tekstil San					Turkey	almoda@almodo.com.tr	<a href="https://www.almodo.com.tr/">https://www.almodo.com.tr/</a>
Amber Denim Ltd					Bangladesh	shasan@amber.com	<a href="http://www.ambergroup.com.bd/">http://www.ambergroup.com.bd/</a>
AMC Knit Composite Ltd					Bangladesh	amcknit@gmail.com	<a href="http://www.spgroup.com.bd/">http://www.spgroup.com.bd/</a>
Anowara Knit Composite					Bangladesh	mostafizur@anowaragroup.com	
Apparels Village Ltd					Bangladesh	monzuavl@gmail.com	<a href="http://www.faiyazgroup.com/">http://www.faiyazgroup.com/</a>
APS Apparel					Bangladesh	rashed@aps-group.org	<a href="http://www.aps-group.org/">http://www.aps-group.org/</a>
Asahi Kasei Corp.					Japan	komatsubara.yf@om.asahi-kasei.co.jp	<a href="https://www.asahi-kasei.com/jp/">https://www.asahi-kasei.com/jp/</a>
Aydin örme San Ve Tic					Turkey		<a href="http://www.lila.com.tr/">http://www.lila.com.tr/</a>
Beximco Ltd					Bangladesh	tutulbkl@beximtex.com	
Black Peony Textile Co Ltd					China	<a href="mailto:liyinghui198911@126.com">liyinghui198911@126.com</a>	<a href="https://www.blackpeony.com/zh">https://www.blackpeony.com/zh</a>
Bolou Fu yang Textile Co					China	<a href="mailto:angel.yu@fuyangtextile.com">angel.yu@fuyangtextile.com</a>	<a href="http://www.fuyangtextile.com">http://www.fuyangtextile.com</a>
Boyteks tekstil San Ve Tic					Turkey	tel: +90 3523 220588	



BSL Ltd					India	bslgen@bslsuitings.com	<a href="http://www.bslltd.com/">http://www.bslltd.com/</a>
Calik Denim Tekstil San Ve					Turkey	tel:+90 4223 776100	
Can Tekstil Entegre Tesisleri					Turkey	info@cantekstil.com.tr	<a href="http://www.cantekstil.com.tr/">http://www.cantekstil.com.tr/</a>
Cervotessile Textile (Suzhou) Co., Ltd.					China	<a href="mailto:sunny.suzhou@cervotessile.it">sunny.suzhou@cervotessile.it</a>	
Changshu Qunying Knitting Manufacture Co., Ltd.					China	<a href="mailto:846225000@qq.com">846225000@qq.com</a>	<a href="http://www.csqy.com">www.csqy.com</a>
CHARGEURS PCC China Manufacturing					China	<a href="mailto:h Zhang@chargeurs-pcc.com">h Zhang@chargeurs-pcc.com</a>	
Chia Her Industrial Co., Ltd.					Taiwan	<a href="mailto:lh8709027@chgtex.com">lh8709027@chgtex.com</a>	<a href="http://www.chgtex.com.tw">www.chgtex.com.tw</a>
Chiem Patana Textiles Co., Ltd.					Thailand	<a href="mailto:info@chiempatana.com">info@chiempatana.com</a>	<a href="http://www.chiempatana.com">www.chiempatana.com</a>
Chittagong Denim Mills Ltd.					Bangladesh	<a href="mailto:binoy@chittagongdenim.com">binoy@chittagongdenim.com</a>	<a href="http://www.chittagongdenim.com">www.chittagongdenim.com</a>
Comfit Composite Knit Ltd.					Bangladesh	<a href="mailto:anis@youthbd.com">anis@youthbd.com</a>	<a href="http://www.youthbd.com">www.youthbd.com</a>
Concordia Advanced Fabrics (Suzhou) Co., Ltd.					China	<a href="mailto:RachelLu@concordiasuzhou.com">RachelLu@concordiasuzhou.com</a>	<a href="http://www.concordiasuzhou.com">www.concordiasuzhou.com</a>
Cotton Club (BD) Limited					Bangladesh	<a href="mailto:hr@cclbd.com">hr@cclbd.com</a>	<a href="http://www.cclbd.com">www.cclbd.com</a>
Creative Textile Mills Private Limited					India	<a href="mailto:brijal.lad@ctmpl.creativegarments.com">brijal.lad@ctmpl.creativegarments.com</a>	<a href="http://www.creativegroup.in">www.creativegroup.in</a>
Dong Guan Yuan Lun Textile Co., Ltd.					China	<a href="mailto:katherline_wu@bestssource.com">katherline_wu@bestssource.com</a>	
Efes Havlu Tekstil San Tic AS					Turkey	<a href="mailto:kaliteyonetim@efeshavlu.com.tr">kaliteyonetim@efeshavlu.com.tr</a>	<a href="http://www.efeshavlu.com.tr">www.efeshavlu.com.tr</a>
Epyllion Fabrics Ltd.					Bangladesh	<a href="mailto:info@epylliongroup.com">info@epylliongroup.com</a>	<a href="http://www.epylliongroup.com">www.epylliongroup.com</a>
EUROTEX KNITWEAR LTD.					Bangladesh	<a href="mailto:eten@agnionline.com">eten@agnionline.com</a>	
Fabtex Enterprise Co., Ltd.					Taiwan	<a href="mailto:fab.tex@msa.hinet.net">fab.tex@msa.hinet.net</a>	<a href="http://fabtex.com.tw">fabtex.com.tw</a>
FAISAL SPINNING MILLS LTD					Pakistan	<a href="mailto:compliance@umergroup.com">compliance@umergroup.com</a>	<a href="http://www.umergroup.com/">www.umergroup.com/</a>
Fakhruddin Textile Mills Ltd.					Bangladesh	<a href="mailto:shimul@urmigroup.net">shimul@urmigroup.net</a>	<a href="http://www.urmigroup.net">www.urmigroup.net</a>
FAKIR APPARELS LIMITED					Bangladesh	<a href="mailto:infoall@fakirapparels.com">infoall@fakirapparels.com</a>	<a href="http://www.fakirapparels.com">www.fakirapparels.com</a>

Fakir Fashion Ltd.					Bangladesh	info@fakirfashion.com	www.fakirfashion.com
Formosa Taffeta (Chang Shu) Co., Ltd.					China	csg8101@ftc.com.tw	www.ftc.com.tw
Freudenberg & Vilene Interlinings (Nantong) Co., Ltd.					China	shuping.gong@fvic.com.cn	
Fujian Donglong Knitting & Textile Co., Ltd.					China	office@dl-lace.com	www.dl-lace.com
Fujian Fynex Textile Science & Technology Co., Ltd.					China	wuhua@fynex.com.cn	www.fynex.com.cn
Fujian Qianfeng Textile Technology Co., Ltd.					China	sgj1107@hotmail.com	
Fujian Showme Group Co., Ltd.					China	linjianhua@showmegroup.net	
Fuzhou Fuhua Textile & Printing Dyeing Co., Ltd.					China	fuhua_cholin@163.com	www.fuhuatex.com/
Fuzhou Fuhua Textile & Printing Dyeing Co., Ltd.					China	fuhua_cholin@163.com	www.fuhuatex.com/
GOHAR TEXTILE MILLS (PVT) LTD					Pakistan	processing.lab@gohartextile.com	www.gohartextile.com
Golden Horizon Dyeing Co., Ltd.					China	hoyum-30@goldenhorizon.com.cn	
Grandetex Development Co., Ltd.					Taiwan	<a href="mailto:amypan@grandetex.com.tw">amypan@grandetex.com.tw</a>	
Guangdong Billion Union Textile Co., Ltd.					China	keira@billion-holding.com	www.billion-holding.com
Ha-Meem Denim Ltd.					Bangladesh	<a href="mailto:sales@hameemdenim.com">sales@hameemdenim.com</a>	www.hameemdenim.com
Haicheng Xintai Resin Lining Co., Ltd.					China	sales@dpsxintai.com.cn	www.dpsxintai.com.cn
Haining City Yueda Warp Knitting Co., Ltd.					China	jb@hnyueda.com	
Haining Shunlong Dyeing & Finishing Co., Ltd.					China	<a href="mailto:sophie07430@163.com">sophie07430@163.com</a>	
Hamid Fabrics Ltd.					Bangladesh	mahin.hfl@gmail.com	www.hfl.com.bd
Hangzhou Xinsheng Printing & Dyeing Co., Ltd.					China	<a href="mailto:zhanyizhen1981@163.com">zhanyizhen1981@163.com</a>	

HTT Material Technology Co., Ltd.					China	pengyl@htt.cn	
Huafang Co., Ltd					China	syshfgf@126.com	www.hfgf.cn
Haining Shunlong Dyeing & Finishing Co., Ltd.					China	<a href="mailto:sophie07430@163.com">sophie07430@163.com</a>	
Huamao (Xiamen) Special Material Co., Ltd.					China	ycm@hmtex.com	
Hunan Zhenyang Textile Technology Co., Ltd.					China	Lily.Huang@dgzhenyang.com.cn	
Hung Yen Knitting & Dyeing Co. Ltd					Vietnam	<a href="mailto:m.legramandi@hungyen-kd.com">m.legramandi@hungyen-kd.com</a>	
Huzhou Hengxin Label Manufacture Co., Ltd.					China	sale03@hengxin-label.com	
Huzhou Lingxian Silk Ribbon Co., Ltd.					China	susan@leaderslabel.com	
Hwa Well Textiles (BD) PLC.					Bangladesh	info@hwawelltex.com	
Impress-Newtex Composite Textiles Ltd.					Bangladesh	habibur.rahman@impress-newtex.com	www.impress-newtex.com
Jiangmen Tianhao Textile Co., Ltd.					China	allygao@jm-tianhao.com	
Jiangmen Weimei Elastic Fabric Co., Ltd.					China	sophiaou@weimeifabrics.com	
Jiangmen Xinhui Charming Industry Co., Ltd.					China	yim.zeng@charmingfabrics.com	
Jiangsu Dingxin Dyeing & Printing Co., Ltd.					China	397091515@qq.com	
Jiangsu Pinytex Textile Dyeing&Finishing Co., Ltd.					China	zhengjz0207@jspinytex.cn	
Jiangsu Shenli Enterprise Co., Ltd.					China	jinguohui@shencheng.com	www.jiangsushenli.com
Jiangsu Tak Sang Textile Printing & Dyeing Co., Ltd.					China	heyiping@tak-sangchina.com	
Jiangsu Wulong Knitting Co., Ltd.					China	13814440684@139.com	

Jiangsu Xinkaisheng Enterprise Development Co., Ltd.					China	lt@jsnewks.com	
Jiangyin Fuhui Textiles Ltd.					China	wkli@fuhui.fshl.com	www.fshl.com
Jiangyin Zhenhong Printing and Dyeing Co., Ltd.					China	zhangping65299@163.com	
Jiaxing Deyong Textiles Co., Ltd.					China	<a href="mailto:shixiaoying@dy-fz.com">shixiaoying@dy-fz.com</a>	
Kaiping Panther Textiles Co., Ltd.					China	lhwen@panther-textiles.com	
KAM International					Pakistan	khwaja@kam-int.com	www.kam-int.com
Kbtex Warp Knitting Technology Co., Ltd.					China	625486396@qq.com	
KNIT ASIA LIMITED					Bangladesh	<a href="mailto:info@newasiabd.com">info@newasiabd.com</a>	
Knit Concern Ltd.					Bangladesh	info@knitconcern.com	www.knitconcern.com
KOMATSU MATERE Co., Ltd.					Japan	ts_wada@komatsumatere.co.jp	
Kunshan Sanchuan Hi-Tech Fabric Co., Ltd.					China	1057502633@qq.com	
Kunshan Xichuan Textile Co., Ltd.					China	frank@ksxctextile.com	
Laimei Sci-Tech Inc.					China	sheny@laimeikeji.com	www.lymmi.com/
Leke Fashion Ningbo Ltd.					China	<a href="mailto:anthonyxuan@hotmail.com">anthonyxuan@hotmail.com</a>	
LIBERTY MILLS LIMITED					Pakistan	sdl@libertymillslimited.com	liberty@libertymillslimited.com
Lu Thai Textile Co., Ltd.					China	wangna@ltdc.com.cn	
Lucky Tex Pakistan (Pvt) Ltd					Pakistan	mrp@luckytexonline.com	
Lucky Textile Mills Limited					Pakistan	ahmedali@luckytextilemills.biz	
M.M. Knitwear Ltd.					Bangladesh	<a href="mailto:mahabub@mmknitwear.com">mahabub@mmknitwear.com</a>	www.mmknitwear.com
M/S Beacon Impex(Pvt.) Limited, (Hawk Unit)					Pakistan	<a href="mailto:tayyabnazir@masoodtextile.com">tayyabnazir@masoodtextile.com</a>	masoodtextile.com/
Mackent Group Co., Ltd.					Taiwan	joanna@mackent.com.tw	www.mackent.com.tw

Maheen Textile Mills (PVT) Ltd					Pakistan	compliance.mills@maheentex.com	
Masco Industries Ltd. (Composite Knit Garments)					Bangladesh	afran@mascoknit.com	www.mascoknit.com
Maxim Textile Technology Sdn Bhd					Malaysia	cfmah@ghimli.com	www.maxim-textile.com
Men-Chuen Fibre Industry Co., Ltd.					Taiwan	max.hsueh@mctw.mds-intl.com	
Menderes Tekstil San. Ve Tic. A.S.					Turkey	menderes@menderes.com	www.menderes.com
MF Co., Ltd.					China	631427848@qq.com	
Mianyang Jialian Printing & Dyeing Co., Ltd.					China	marketing@ganlion.cn	www.ganlion.cn
Nassa Taipei Denims Ltd.					Bangladesh	denim@nassagroup.org	www.nassagroup.com
Ningbo ILan Fabrics Co., Ltd.					China	ilan.lisa@ilanfabrics.com	
Ningbo Qiaotaixing Textiles Co., Ltd.					China	qtxyfb@mail.nbqtx.com	
Nishat Chunian Limited					Pakistan	waqar@nishat.net	www.nishat.net
Nitin Spinners Ltd.					India	nsl@nitinspinners.com	www.nitinspinners.com
Norban Comtex Limited					Bangladesh	<a href="mailto:norban@norbanfashion.com">norban@norbanfashion.com</a>	
Orta Anadolu Ticaret ve Sanayi İşletmesi T.A.Ş					Turkey	scundubey@ortaanadolu.com	
Ozanteks Tekstil Sanayi ve Ticaret A.S.					Turkey	ozge Gunduz@ozanteks.com.tr	www.ozanteks.com.tr
Pac-Fung (Heshan) Home Textile Co., Ltd.					China	johnsont@pac-fung.com	
Penfabric Sdn. Berhad - Head Office & Factory					Malaysia	jayapaul.arumaidhas.w6@mail.toray	www.penfabric.com.my
Penn Asia Co., Ltd.					Thailand		www.penn-asia.com
PRYM Intimates Lanka Private Ltd					Sri Lanka	sudeshf@prym-intimates.com.lk	
PT KAHATEX					Indonesia	lab.umum.bd@kaha.com	www.kahatex-ind.com

PT. Century Textiles Industry Tbk					Indonesia	daichi.ando.c7@mail.toray	
PT. INDO TAICHEN TEXTILE INDUSTRY					Indonesia	<a href="mailto:marketing@indotaichen.com">marketing@indotaichen.com</a>	
PT. Indonesia Libolon Fiber System					Indonesia	<a href="mailto:jackson@lealea.com.tw">jackson@lealea.com.tw</a>	
PT. Shinta Woo Sung					Indonesia	agung@shintawoosung.com	www.shintawoosung.com
PT. Sinar Para Taruna Textile					Indonesia	hendro2spt@yahoo.com	www.sinarparataruna.co.id
PT. Sri Rejeki Isman Tbk.					Indonesia	ajai@sritex.co.id	www.sritex.co.id
PT. Winnersumbiri Knitting Factory					Indonesia	labtest@winnersumbiri.com	
Qidong Qianfan New Material Co., Ltd.					China	yjianmei13@163.com	
Qingyuan Wanjiali High Technology Co., Ltd.					China	wh01@wjl-lace.cn	
Raiyan Knit Composite Ltd.					Bangladesh	harun@nurgroupbd.com	
Rajby Textiles Private Ltd					Pakistan		
Raymond UCO Denim Private Limited					India	Santosh.Chandak@Raymond.in	
Recron (Malaysia) Sdn. Bhd.					Malaysia	neo.sanhaw@recron.com	
Rising Knit Textiles Ltd.					Bangladesh	tanim@rising-group.com	
Ruey Tay Fibre Industry Co., Ltd.					Taiwan	douglas_wang@rtfiber.com.tw	
SANKEI COMPANY LIMITED					Japan	yoshirou-ishii@sankeicoltd.co.jp	
Sanko Tekstil Isl. San. Ve Tic. A.S. Isko Subesi					Turkey	info@isko.com.tr	www.isko.com.tr
Sanming Jianhua Textile Co., Ltd.					China	yanjianlin@jianhua-textile.com	www.jianhuatextile.com.cn/
Scandex Textile Industries Ltd.					Bangladesh	ecr@metrokd.com	
Seduno Group Co., Ltd.					China	<a href="mailto:lisazhu@orient-hongye.com">lisazhu@orient-hongye.com</a>	

Shanghai Flying Fashion High-Tech Laminated Fabrics Co. Ltd.					China	<a href="mailto:lisa@flying-fashion.com">lisa@flying-fashion.com</a>	<a href="http://www.hon-tex.cn/">www.hon-tex.cn/</a>
Shanghai Textile Decoration Corporation (Group)					China	<a href="mailto:hwq@shangtexdec.com">hwq@shangtexdec.com</a>	
Sichuan Yilong Technology Textile Group Co., Ltd.					China	<a href="mailto:ghostlook@sohu.com">ghostlook@sohu.com</a>	
SM Knitwears Ltd.					Bangladesh	<a href="mailto:smgroup@dhaka.net">smgroup@dhaka.net</a>	<a href="http://www.smknitwear.com">www.smknitwear.com</a>
Sunvim Group Co., Ltd.					China	<a href="mailto:1806500162@qq.com">1806500162@qq.com</a>	<a href="http://www.sunvim.com">www.sunvim.com</a>
Suzhou Nanhua Textile Reorganization Technical Co., Ltd					China	<a href="mailto:cry114@163.com">cry114@163.com</a>	
Taihua High-Tech Dyeing & Finishing (Jiaxing) Co., Ltd.					China	<a href="mailto:shenyeming1983@126.com">shenyeming1983@126.com</a>	
Tianjin New Textiles Group Co., Ltd.					China	<a href="mailto:sxr@mail.ttexco.com">sxr@mail.ttexco.com</a>	<a href="http://www.ttexco.com">www.ttexco.com</a>
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Vilartex - Empresa de Malhas Vilarinho, Lda.					Portugal	<a href="mailto:marcia.fernandes@vilartex.pt">marcia.fernandes@vilartex.pt</a>	<a href="http://www.vilartex.pt">www.vilartex.pt</a>

weba Weberei Appenzell AG				Switzerland	kuhn@weba.ch	www.weba.ch
Wendler Einlagen GmbH & Co. KG				Germany	anke.wurst@wendler-einlagen.de	www.wendlerinside.com
Wernerfelt A/S				Denmark	britta.nikolajsen@wernerfelt.com	
Wünsche Fashion GmbH & Co. KG				Germany	info@wuensche-fashion.de	www.wuensche-fashion.de



# LEVERANDØRKATALOG

## AMERIKA

Company	Knit	Woven	Coated	Lining	Country	Contact	Web
Indústria e Comércio de Malhas RVB, LTDA					Brazil	ana.j@rvbmalhas.com.br	www.rvbmalhas.com.br
Têxtil Farbe Ltda (Texneo)					Brazil	anna.tarnovski@texneo.com	www.texneo.com

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VIA University College, Herning, Forskningscenter for  
Tekstil, Design og Cirkularitet  
Mathias Winther [wint@via.dk](mailto:wint@via.dk)

Make it sustainable  
VIA University College

