



## 100% RECYCLED THREADS

Responsible decisions for the future

### On the frontline of sustainability

At A&E Gütermann, sustainability is woven into our very DNA. As an industry leader in Sustainability, Health, Safety and Labour, we assume responsibility with regard to product and manufacturing sustainability while protecting the human rights and safety of each employee. One of our sustainability milestones by the year 2025 is to produce our A&E Gütermann products with at least 50% recycled polyester content. For detailed information, please refer to our 2020 Corporate Sustainability Report.

The demand for the highest quality and safety in every aspect of our products is additionally assured through regular certifications. Our 100% recycled thread assortment is REACH compliant as well as certified according to OEKO-TEX® and the Global Recycled Standard (GRS).

### Why to prefer our 100% recycled threads?

- Our threads are made from 100% recycled polyester
- High quality sewing threads – comparable quality to our non-recycled sewing threads!
- Wide product range
- Reliable solution for a wide range of seam operations and applications
- GRS, REACH and OEKO-TEX® certified

## We are the right partner!

If you are looking for a 100% recycled thread range, we are the right partner at your side! No matter for which application or sewing project, we can supply the right threads to meet your needs.

Thanks to our knowledge and many years of experience, we will support you in successfully implementing your application requirements. At the same time we will be there for you anytime with valuable advice to optimise your manufacturing efficiency. The quality of our recycled sewing threads is comparable to our non-recycled ones, making them a viable alternative to our traditional thread assortment.

Our responsibility starts at our own doorstep – and applies to all activities worldwide. We support the sustainable value creation by offering our ecological product range and in investing in renewable energies as well as by reducing the environmental impact through innovative processes and technologies.

## How innovation is born out of responsibility



**1 PET bottles**  
The raw materials are obtained from recycled PET bottles.



**2 Flakes**  
The PET bottles are washed and chopped into flakes.



**3 Granules**  
When the flakes are melted down, they turn into granules...



**4 Recycled raw material**  
...which are respun into thread...



**5 Recycled sewing threads**  
...and thus form the basis for our sustainable sewing threads.

## Acting transparently – thanks to GRS

Transparency is the key prerequisite for us to achieve our sustainability goals and to be able to maintain the trust of our customers in our products and services. Our certifications are the proof of our well-known and appreciated product quality. For this reason, we have decided to certify all our recycled sewing threads according to the Global Recycle Standard (GRS).

The GRS Standard makes it possible to record the exact proportion of recycled material in thread products and to track it throughout the entire value chain. Furthermore, this

standard ensures that social, environmental and chemical regulations are met in production by e.g. adhering to social standards and banning harmful substances. Or to put it briefly: Thanks to GRS our thread production has now become even more sustainable!





SUSTAIN  
ABILITY

## Our recycled product range

### MARA rPET

Mara rPET is our premium recycled sewing thread and is ideal for use in apparel, as well as footwear and leather goods. The raw material for this unique Micro Core Technology® sewing thread is made from 100% recycled polyester.

### PERMA CORE® ECO100

Perma Core® ECO100 is a recycled core spun thread which is ideal for use in several applications. The main areas of use are apparel, home textiles, upholstery and mattresses.



### WILDCAT PLUS® ECO100

Wildcat Plus® ECO100 is our recycled textured sewing thread for perfect overlock and overedging seams. This sewing thread can be used as needle and looper thread. It is super soft and ensures maximum performance on serging machines.

### PERMA SPUN® ECO100

Perma Spun® ECO100 is our economical, recycled thread solution. This spun thread can be used for apparel as well as for non-critical seams.







SUSTAIN  
ABILITY



## Our recycled continuous filament thread range

### TERA rPET

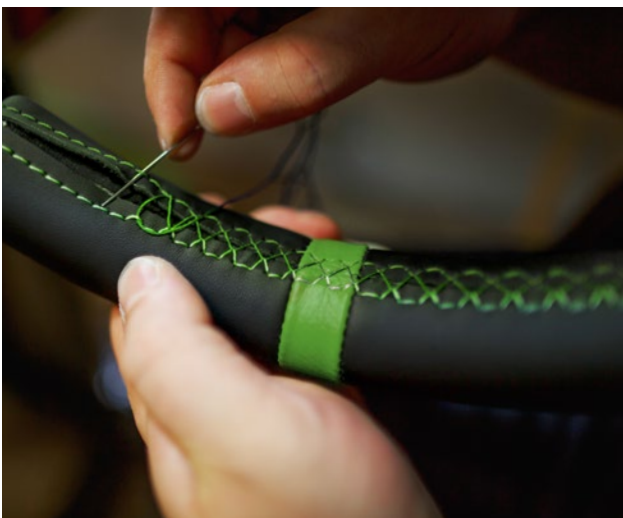
Tera rPET is a continuous filament made from 100% recycled polyester. This thread is the perfect solution for use in luxury leather goods and shoes. It is also suitable for upholstery applications and sewing mattresses.

### ANEFIL POLY ECO100

Anefil Poly ECO100 is a continuous filament made from 100% recycled polyester which is ideal for use for sewing mattresses and for upholstery applications as well as footwear and leather goods.

### CALORA rPET

We are happy to announce that we have also developed a solution for automotive applications! Calora rPET is a premium continuous filament made from 100% recycled polyester.



# PERMA CORE® ECO100

Material: 100% polyester, recycled  
Thread construction: Core spun thread



## Areas of use

Clothing | Workwear | Home textiles | Upholstery | Mattresses

## Shade range

Shade card Perma Core® /  
Perma Core® Ultimate

## Care instructions



## Product benefits

Made from recycled polyester | High tear- and abrasion resistance | Sewable with low tensions

Article	dtex	tex	Make-up	Code	Needle size	Strength	Elongation
No./Tkt. 27	1050(2)	105	3.000 m	708631	NM 110 – 130 / 18 – 21	> 4.500 cN	Ø 25 %
No./Tkt. 36	800(2)	80	5.000 m	708640	NM 100 – 120 / 16 – 19	> 3.300 cN	Ø 23 %
No./Tkt. 50	600(2)	60	5.000 m	708650	NM 90 – 110 / 14 – 18	> 2.500 cN	Ø 23 %
No./Tkt. 75	400(2)	40	5.000 m	708660	NM 80 – 100 / 12 – 16	> 1.700 cN	Ø 20 %
No./Tkt. 120	240(2)	24	5.000 m	708670	NM 70 – 80 / 10 – 12	> 1.100 cN	Ø 20 %

## Fastnesses

Wash fastness	ISO 105 C10 C	grade 4 or better
Water fastness	ISO 105 E01	grade 4 or better
Rub fastness	ISO 105 X12	grade 4 or better
Hypochlorite fastness	DIN EN 20105 - N01	grade 4 or better
Dry cleaning fastness	ISO 105 D01	grade 4 or better
Perspiration fastness	ISO 105 E04	grade 4 or better
Light fastness	ISO 105 B02	grade 4 or better

Please note: The indicated technical information is based on average values and should only serve as a point of reference.

## Certified Sustainability

Perma Core® ECO100 has been awarded the OEKO-TEX® STANDARD 100 and the Global Recycled Standard certificate

