



GM

GEBRÜDERMUNZERT

DID YOU KNOW?



Climate protection you can touch: 1 ton of yarn made from sugar cane binds up to 2.5 tons of CO₂ during production

Bios

Bios - the revolution of performance & sustainability

Proven and yet radically different? The apparent contradiction is what makes our Bios yarn a real revolution in performance and sustainability.

The secret lies in the bio-based polyethylene (PE), which is derived from the **rapidly renewable and sustainable source: sugar cane**.

This by-product of the food industry is thus put to meaningful use instead of ending up as waste.



In a special process, the **sugar cane is first converted into ethanol and then processed into polyethylene pellets**. These pellets form the basis for our high-performance Bios material.

Bios is not only exceptionally hard-wearing, but also a pioneer in ecological responsibility and uncompromising durability.

Developed for the highest demands, but manufactured with respect for our planet. In combination with our proven performance yarns. This is the "Threadshift" for hightech with low impact.

From Waste to Value – The advantages of sugar cane as material source:



- ✓ **Bio-based PE is chemically identical to fossil-based PE**
- ✓ **Rapidly renewable raw material that binds CO₂ from the atmosphere already during growth**
- ✓ **Only waste products from sugar cane are used for production - the food industry remains unaffected**
- ✓ **The plant is fully utilized: Ethanol is extracted from the sugar cane juice and electricity is generated from the bagasse in further processes.**



Bios

**OUT
IN DOOR**

Bios

- ✓ **3 years limited warranty***
- ✓ **No yellowing**
- ✓ **Extremely high light fastness (> 2500 hours of xenon light)**
- ✓ **Machine washable and cleanable with 100% chlorine bleach**
- ✓ **Mould, moth and mite resistant**
- ✓ **Anti-allergenic**
- ✓ **Low tendency for pilling**

Sustainability that lasts – Performance that inspires

In the high-performance outdoor segment, sustainability has so far been considered incompatible with maximum performance – **Bios pushes these boundaries and completely redefines outdoor textiles.** However, the essential difference is the combination of two materials with a distinctive character that complement each other perfectly: Bio-based polyethylene AND our tried-and-tested solution dyed polyacrylic create an incomparable symbiosis of durability and environmental awareness.

Both materials together form a textile subversion – without PFOA's, without softeners, without chemical finishes, without flame retardant chemicals – and are yet extremely abrasion-resistant, antibacterial and lightfast and without flame retardant chemicals. Thanks to the color pigments embedded in the fibers during the production process, the collection impresses with its inner values and outer beauty. Our In/Outdoor Bios collection is more than just a trend. It is a pioneer for a future-oriented textile industry. With Bios, we combine environmental responsibility with outstanding function and make our collection more durable and hard-wearing than ever before.

Bios is not just an evolution. It is a revolution!

Look forward to extraordinary combinations with our product portfolios – this is just the beginning of a sustainable and high-performance textile transformation that redefines the standard.

* For our In/Outdoor + Bios textiles, we grant a limited guarantee of 3 years against fading and yellowing of the fabric – but only on the condition of verifiably appropriate, regular care in accordance with our care instructions. The guarantee only applies to normal use and explicitly excludes damage caused by external influences, improper cleaning, storage, excessive UV exposure or chemical exposure contrary to the cleaning recommendations.

In the event of a warranty claim, the claim for compensation is limited exclusively to the equivalent value of the fabric supplied (material value at the time of purchase, without further claims such as subsequent costs or processing). This guarantee applies in addition to the statutory warranty rights, which are not restricted by this provision.