

# THE ULTIMATE ANSWER TO SUSTAINABILITY ISSUES





## OUR ANSWER TO SMART SUSTAINABILITY

**BIOBACK low impact technology** is the new M.I.T.I. technology totally aligned with the Greenforming 2.0 philosophy. This technology, based on accelerated biodegradable yarns provides a punctual response to the end-of-life issue of textile products.

## NYLON

Amni Soul Eco® is a special Polyamide produced with a composition of additives which confer properties of accelerated biodegradability.

In fact it is able to degrade (during its end-of-life phase in the landfill) more rapidly than ordinary synthetic fibres.

Once in the landfill, the contact with the micro organisms of this anaerobic environment triggers a process which makes the yarn degrade in 5 years rather than the 50-100 years required for a traditional synthetic fibre.

Accelerated biodegradability only takes place when the yarn is buried in the landfill (BURIAL TEST), causing the yarn to lose weight and volume.

## RAW MATERIALS

The yarns used in this technology are the best accelerated biodegradable option available for man-made fibers: Polyamide AmniSoul ECO®, Recycled Polyester GreenOne® and Elastane Roica™V550.

Accelerated biodegradability has been laboratory tested using the burial test in compliance with the ASTM D5511\* standard (Standard Test method for Determining Anaerobic Biodegradation of Plastic Materials under High Solids Anaerobic Digestion Conditions).

This polyamide is endowed with technical properties and performance analogous to those of a standard polyamide; the life of the fibre during garment use is the same.

This special polyamide contains no toxic components and is OEKO-TEX CLASS I certified.

Amni  
Soul Eco®

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## RECYCLED POLYESTER

The recycled biodegradable Polyester Greenone® has origin from the used plastic bottles that become, by extrusion, recycled threads . These yarns are add with specific organic additives that attract bacteria in an anaerobic field. This process allows the fabric, at its end of life step, to degrade in an anaerobic environment in almost 1 and a half year **\*\***[Burrial test commissioned by Nan Ya with ASTM D5511 method and realized at Eden Research Laboratory, Albuquerque, NM, showing a fabric degradation of 49.2% after 592 days in landfill].



## ELASTANE

- ▶ Elastane Roica™ V550, belonging to the Roica™ Eco Smart family, consumes less energy with a reduced environmental impact.
- ▶ Elastane Roica™ V550 is Oeko-tex Class 1-certified and is an entirely NON TOXIC product according to the prestigious HOHENSTEIN CERTIFICATE certification body. This certification takes place by burying the fibre in biologically active ground for 360 days (BURIAL TEST), after which, its eco-compatibility is assessed.

- ▶ Elastane Roica™ V550 responds to the new evaluations on the impact and end-of-life of textile products. In fact it has been awarded a gold medal by complying with the principles of the Product Health Category of Cradle to Cradle™ certification. Elastane has been evaluated for its impact on human health and on the environment.

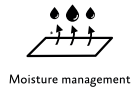
The aim of these principles and of the Cradle to Cradle™ certification is to create a virtuous circle of products and materials which are non-toxic and do not release chemical substances.

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## BIOBACK FABRICS

### BIO-DUST



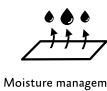
- ▶ A lightweight interlock circular knit fabric, with moisture management and quick-drying properties.
- ▶ Composition: 100% PA with accelerated biodegradability.
- ▶ 105 g/ sq m.
- ▶ Suitable for tops/ t-shirts and lightweight knitted garments.

### DUAL CLAY-BIO



- ▶ Medium weight elastic jersey whose production is based on circular knitting technology, endowed with excellent moisture management and quick-drying properties. Elevated abrasion resistance.
- ▶ Composition: 74% PA with accelerated biodegradability – change 26% Cradle to Cradle® low impact elastane.
- ▶ 210 g/ sq m.
- ▶ Suitable for fleece garments, first or second layers. Leggings, casual wear or yoga garments.

### POWDER-BIO



- ▶ Light-weight stretch fabric with soft, silky hand feel, suitable for first layers and casual tshirts.
- ▶ Composition: 82% PA with accelerated biodegradation and 18% Cradle to Cradle® low impact elastane.
- ▶ Weight: 95 gr/mq.

## TIERRA-BIO



Breathable



Soft



Recycled yarn



Quick drying



UV protection



Extra comfort

- ▶ Fresh, light-weight fabric, interlock knit structure with honey comb pattern.
- ▶ Composition: 100% Recycled Biodegradable Polyester.
- ▶ Weight : 125 gr/mq.

## MUNDO-BIO



4 way stretch



Moisture management



Soft



Perfect fit



Recycled yarn



Extra comfort



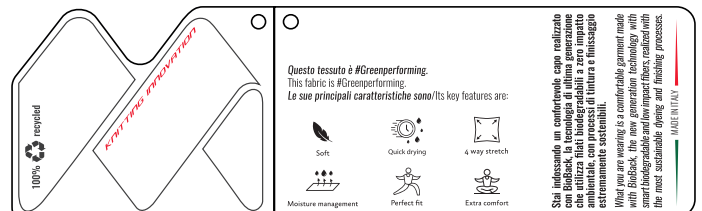
Quick drying



UV protection

- ▶ Fresh, leight-weight fabric suitable for sublimation print.
- ▶ Composition: 85% Recycled Biodegradable Polyester and 15% Cradle to Cradle® low impact elastane.
- ▶ Wight: 130 gr/mq.

## MARKETING TOOLS



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## BRANDS



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## CERTIFICATIONS



CONTACT US FOR MORE INFORMATION

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