

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

There are two main components of this technology: Polyamide Amni SOUL Eco® and Elastane Roica™ V550. With our technology, they may be used in combination or uniquely in the Nylon formulation.

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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discover smart sustainability



Amni
Soul Eco®

During the production and transformation cycle, it has a reduced environmental impact (e.g. lower consumption of water during cultivation and less energy required for garment maintenance: drying and ironing). It is nevertheless a synthetic fibre which degrades more slowly than normal cellulose fibres and cotton.

It is not compostable and is not subject to compostable product certification norms.

It does not degrade when coming into contact with water (aquatic and marine environments).

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.

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 – 26% EA of zero environmental impact.
- ▶ 210 g/ sq m.
- ▶ Suitable for fleece garments, first or second layers. Leggings, casual wear or yoga garments.



GUIDE LINE

- ▶ Colour feasibility to be confirmed following technical analyses.
- ▶ Following the labdip phase, a small semi industrial quantity will be produced for the purposes of aesthetic inspection and approval.
- ▶ The article may not undergo additional treatments such as: DWR M – COLDBLACK – ANTIBACTERIAL (for reasons associated with the biodegradable properties the fabric is obliged to have).
- ▶ No contraindications for wicking treatment.

MARKETING TOOLS

The fabrics which are part of the BIOBACK line are certified to guarantee that they contain Amni Soul Eco®. The end-customer may request yarn tags for applying to the finished garment.



CONTACT US FOR MORE INFORMATION

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