

**Area Innovation at Milano Unica, 12-14 July 2022
organized by SMI-TextClubTec**

Until recently, market's needs that have influenced consumption and material evolution aimed more at the image rather than the contents, but nowadays new and more concrete needs are emerging, such as functionality, sustainability, health and quality of life. These are the new paradigms on which the new market's needs are shaping.

In this context, **TextClubTec**, the Technical and Innovative Textile Section of **Sistema Moda Italia**, presents inside the **Innovation Area**, located in **Hall 8**, a vision that intends to be an overall, but at the same time a diversified vision of the main uses of innovative, functional and technical textiles for clothing sector, characterized by the ability to offer specific performance and functionality or to be developed with innovative and sustainable processes.

In addition, the setting up of an exhibition Forum focused, in this edition of Milano Unica, on

**"Textiles for clothing: Functionality and technology transfer
from advanced application sectors"**

intends to offer an overview of innovative and performing materials able to offer performance of extraordinary excellence while maintaining the well-being of the body in terms of versatility and comfort.

A preview of what will be possible to see and touch inside the Innovation Forum:

- **Sustainable Membranes** developed to reduce the carbon footprint using more and more raw materials coming from renewable sources with certified percentage of BCC (Biobased Carbon Content) or fully compostable according to EN ISO 13432 (*Fait Plast – Windtex Vagotex*)
- Compostable thermoadhesive **Films** (*Fait Plast*).
- Very soft and light **Insulating Paddings** obtained by recycled cashmere, polyester, camelhair fibres or in PLA with thermoregulating, breathable properties and smart moisture management (*Imbotex*).
- **Eco-sustainable Nets** made with recycled PA yarns, certified GRS 4.0, in a view to circular, regenerative, zero waste economy (*Cittadini*).
- Various types of **Sewing threads** made with recycled GRS 4.0-certified high tenacity polyester, with aramidic fiber that combines high tenacity and very high thermal resistance, with Dyneema® fiber characterized by high tenacity and with high tenacity polyamide (*Cittadini*).

- **Technical yarns**, in Cordura, cotton-steel, viscose-graphene and other technical fibres, Ferromagnetic yarns, Elastic silicone yarns (*Ghezzi – Lemur*).

100% Recycled yarns from sock manufacturing waste, **“sustainable” ring yarns** in Bio Nylon; in Crabyon produced with chitin-chitosan deriving from the recycling of shellfish shells and yarns developed in collaboration with Orange Fiber, made with TENCEL™ Lyocell fiber composed of orange cellulose and wood cellulose (*Centrocot - Pozzi Electa*).

- **Fabrics, thermo-adhesive, labels** made in "Reflective". **Graphic transfers** and accessories molded in injection or high frequency, gumming processes performed on tapes or drawstrings (*Extreme*).
- Both knitted and flat **Fabrics**, in various types of fibers for applications in various fields (industry, sportswear, protection, medical, etc.). Recyclable **Laminated fabrics** developed according to the "mono-material" concept. Circular knitted fabrics from 100% recycled yarn from processing waste (*Centrocot - Penn Italia / Penn Textile Solutions – Sitip – Windtex Vagotex*).
- **Finished items** such as for example:

The "**Mars suits**", recently tested by astronauts in the USA, in a context of space medicine, aimed at monitoring the vital parameters of future astronauts and at the development of technologies to support the simulation of life in a space and planetary environment (*RadiciGroup*);

Swimwear from the EDIT line, from Eco-Designed Innovative Textile, developed according to the principles of eco-design with a 100% mono-polymer (polyester) fabric, of which 51% comes from GRS (Global Recycled Standard) certified recycled sources and use of an innovative Windye® technique for the application of double printing (*Yamamay*);

Cycling suits, **Maglia Rosa** and **Maglia Ciclamino**, with technical fabrics with high abrasion resistance and high comfort, and high protection from UV rays (UPF50+) (*Sitip*);

- **Footwear** for football and cycling (*Lemur*);

Pro-U, an innovative ballistic protection vest that can be worn in contact with the skin and which offers maximum comfort for the user, ensuring high protection from gunshot and knife strikes (*Alfredo Grassi*).

- **Garments in 100% recycled fabrics** from sock manufacturing waste (*Centrocot*).