

Exhibition Forum

From Nanoparticles to the Metaverse: Technological innovation for fashion.

Organized by SMI-TextClubTec, Innovation Area
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For years now, the opinion has been established that technological innovation, spread in a synergistic way both along the supply chain and in collateral services, is fundamental for the development of the Textile Clothing sector. Responding to this growing need, **TextClubTec - the Technical and Innovative Textiles section of Sistema Moda Italia** – presents, in the Innovation Area in **Hall 8**, an articulated vision of both the various applications of innovative, functional and technical textiles and the potential of new technologies for the sector.

Thanks to the presence of companies, representing the entire production chain, from raw materials to the finished product, and suppliers of cutting-edge technologies and processes, an articulated path of technological study on digitization, 3D printing and augmented reality will be possible for the textile-clothing sector, as well as to have a vision of the most important innovation trends on textile materials.

In the Exhibition Forum, following an ideal itinerary, it will be possible to range from the potential of using Graphene in textiles to yarns made with sustainable raw materials, from innovative fabrics for Urbanwear and Athleisure to the extension of the Upcycling concept in the padding sector, to new developments in the sector of nets, lamination, finishing, thermo-adhesive fabrics for reflective labels, etc.

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

- Very soft and light **Insulating Paddings** obtained by recycled cashmere, polyester, camelhair fibres or in PLA or blending 70% premium German down with 30% Italian merino wool with thermoregulating, breathable properties and smart moisture management.
- **Polyurethane membranes enhanced G+® Graphene Plus** is a self-standing or combined with a PTFE membrane. G+® membranes can be also laminated onto different type of fabrics.

- **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.
- **Luminescent membrane** capable of capturing solar UV light and releasing it over time.
- **New lamination technology** to improve breathable parameters and keep fashion colour effect.
- **Eco-sustainable Nets** made with recycled PA yarns, certified GRS 4.0, in a view to circular, regenerative, zero waste economy.
- 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.
- **Technical yarns**, in viscose-graphene and stretch viscose-graphene, in Nylon BIO, in polyurethane.
- **Metal Yarns** for knitting and weaving. They give the final product a peculiar brightness and textile memory. The antioxidant protective coating keeps the look untouched by time.
- **Fabrics, thermo-adhesive, labels** made in "Reflective". **Graphic transfers** and accessories molded in injection or high frequency, gumming processes performed on tapes or drawstrings.
- 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. Fabrics in cotton/polyurethane.
- **graphene nanoplatelets-based products.**
- **Magic Box**, a black box capable of dematerializing physical fabrics in a few minutes, making them immediately available online.
- **3D Printer** direct-to-textile.