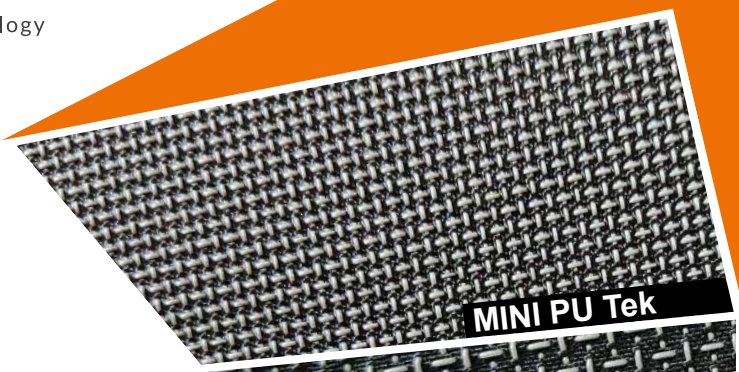
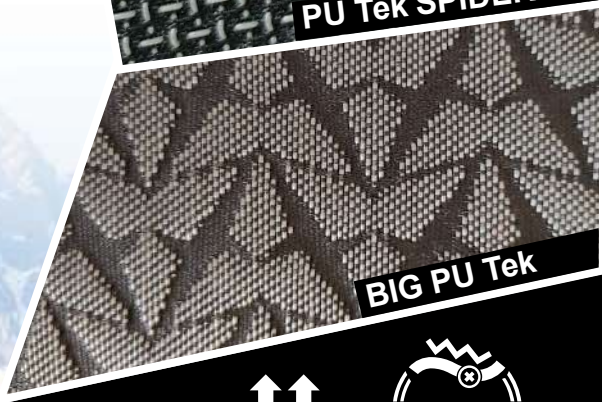
PU Tek technology
HYPERTEX

AS STRONG AS AN ARMADILLO SKIN

Innovations Technologyes by
LENZI EGISTO®

PU Tek technology
HYPERTEX





PU Tek technology use a new concept of threads with super high resistance to abrasion, directly woven in high resistance fabric to achieve textiles with ultimate mechanical performances!

Just touch it to feel it is tough!!

DURABLE

LIGHTWEIGHT

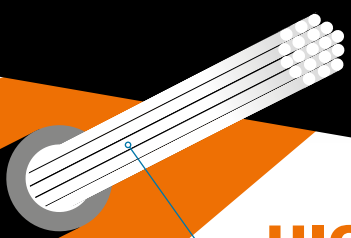
FLEXIBLE

PVC FREE

HIGH BREATHABILITY

ABRASION RESISTANT

SECTION OF A PU Tek THREAD



HIGH TENACITY POLYESTER CORE

EXTERNAL PU COATING

Weave

Visual inspection

Laboratory assessments

PU Tek technology
HYPERTEX

EN 388 ABRASION RESISTANCE TEST ON SAND PAPER

CORDURA 1000 VS PU Tek SPIDER

BEFORE

AFTER
1100 CYCLES

Abrasion resistance test

BEFORE

AFTER
> 8000 CYCLES

Tested by CIMAC
Centro Italiano Materiali di Applicazione Calzaturiera

Laboratory report confirms high abrasion resistance of PU tek material.

EN 20345:2021 REQUIRES
8000 cycles
Abrasion resistance of scuff cap area material.

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PU Tek SPIDER TEST REPORT
> 8000 cycles

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HYPERTEX

FAQ

What makes PU Tek fabrics unique?

The PU Tek thread, developed in partnership with a German manufacturer and produced by them exclusively for FF Lenzi, has a particular polyurethane coating over a high tenacity polyester core. This combination makes these yarns extremely resistant to traction and abrasion. Directly woven into the structure of the fabrics, they makes these materials particular and unique for their characteristics of resistance to abrasion.

How can you recognize a PU Tek fabric?

Imitations with similar aesthetics can be offered on the market, but the mechanical performance, and the particular abrasion resistance characteristics of PU Tek fabrics remain unique. Only garments and footwear made with original PU Tek fabrics can be labeled “PU Tek - As Strong as an Armadillo Skin” to differentiate them from lower quality copies.

Do PU Tek fabrics use PVC?

No, far from it: PU Tek fabrics DO NOT use PVC in any way. The use of PVC-coated yarns is one of the low-priced copies being offered. In addition to the fact that PVC yarns have low cost, but equally poor resistance to abrasion, PVC (Polymer of Vinyl Chloride) is a material that releases polluting emissions in producing it and, above all, cannot be recycled. It is therefore contrary to the environmental sustainability policy of our company, which will never use this type of product.

In consideration of the great resistances of PU Tek fabrics, are special precautions necessary in processing, cutting or confectioning?

No, PU Tek fabrics can be made into garment, footwear and accessories, cut and sewn without any problem, therefore they do not require special precautions, with no particular breakage of needles.

PU Tek is characterized by a rather “rough” appearance. Is it possible to have different effects, perhaps more defined and elegant or even three-dimensional?

Even if the actually “rough” hand that characterizes it conveys well the strength of the material to the user, with the creation of new PU Tek yarns with a smaller and even larger diameter, two new product lines have been now made available:

- the “PU Tek Mini” range, made with finer yarns, which allows more detailed designs, elegant effects, thou resistant to abrasion and high mechanical performance.
- the “BIG PU Tek” range, obtained with thicker yarns, for fabrics with a great three-dimensional effect and a particularly gritty appearance.

ABRASION RESISTANT · LIGHTWEIGHT · FLEXIBLE · PVC FREE · HIGH BREATHABILITY · DURABLE

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