

Transpatec® (TTA)

Part 1

Color:	Anthracite
Material:	Polyester FX6 modified and with anti-smudge coating Weight: 40 gsm
Mesh size:	1,27 x 1,34 mm
Projected thread thickness:	0.13/0.15 mm
Projected open area:	80%
Air permeability:	3.2 m/s at 0.12 mbar differential pressure (zero value of the test system 0.10 mbar)
UV and weather resistance:	Very good UV and weather resistance 5-year simulation test according to DIN EN ISO 13934-1, DIN EN ISO 11341 cycle A and DIN EN ISO 4892-2 cycle no. 1



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Main use:

Special fabric for roller blind and frame systems

Product groups:

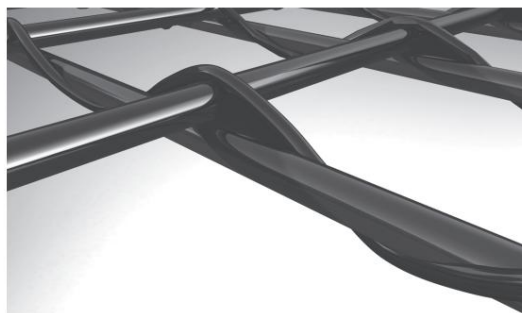
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Product description:

Fabric structure:

In years of research, Neher has developed an insect protection fabric that is unique in the world: Transpatec. The thread from Transpatec consists of a newly developed high-performance yarn, only 0.13 millimeters thick. Despite its low thickness, it is very tear-resistant and weather-resistant. This is due to the so-called "FX6 factor". FX6 is a special additive that is added during the manufacture of the yarn; it makes the super-fine high-tech thread extremely robust and durable. As a result, Transpatec can also be used in roller blinds.

Transpatec is also breaking new ground when it comes to fabric construction: Transpatec relies on a new binding thread weaving technique. The weft and warp threads lie flat on top of each other and are fixed with the help of a third, only 0.06 mm fine and high-strength binding thread. An extraordinarily high stitch strength and homogeneity of the fabric is already achieved during the weaving process. In order to increase this even further, the resulting gaps are filled in a process developed for Transpatec and then welded. This means that all three threads are homogeneously and firmly connected at the crossing point.



Transpatec impresses with numerous advantages compared to a standard insect protection fabric.

Air passage:

With Transpatec, the air passage is approx. 140% better than with a conventional standard fabric.

Due to the special structure, air turbulence is broken - this means that the air permeability, especially at low wind speeds, is significantly higher than with a standard fabric.

Visibility

Above all, Transpatec impresses with its brilliant transparency and is almost invisible both from the inside and from the outside.

Although Transpatec has a very large open area of over 80%, the individual mesh openings are smaller than in a conventional standard fabric and the protection against insects is therefore even better.

The thin threads of Transpatec reduce the fabric surface and increase light transmission.

For comparison: Conventional standard fabric has an approximately 100% higher fabric surface, which has a negative effect on the passage of light and air.

Cleaning (new from 2020):

The pre 2020 Transpatec filtered out most of the dust and dirt particles from the air flowing through. As a result, the fabric became soiled over time.

The rain cleaned the fabric through a special coating on the surface of Transpatec (self-cleaning effect).

However, if no rain or not enough rain got to the fabric, this self-cleaning effect was lost and Transpatec had to be cleaned regularly by hand.

The research department at Neher has now succeeded in developing a coating where a large part of the dust and dirt particles are still filtered out of the air flowing through, but these no longer stick to the fabric. Even the slightest wind is enough for these particles to fall off the fabric.

This means that Transpatec hardly ever gets dirty, even if no rain gets on the fabric.

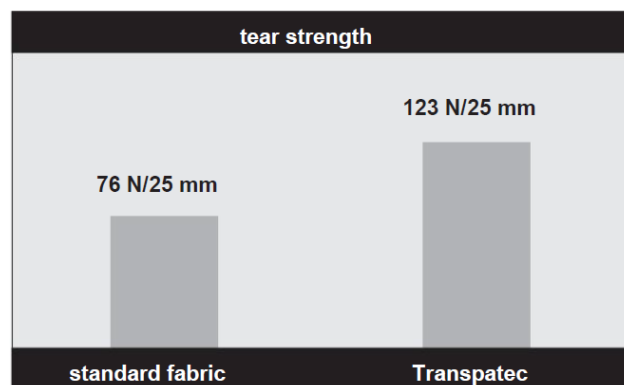
Tear resistance and durability:

Transpatec has a high mesh strength and therefore very good tear and puncture resistance!

In addition, Transpatec is very weather-resistant and durable. All this makes Transpatec highly suitable for everyday use.

The weather resistance and tear strength were tested by an independent testing institute according to DIN EN ISO 13934-1, DIN EN ISO 11341 cycle A and DIN EN ISO 4892-2 cycle no. 1 tested and confirmed.

The graph shows the tear strength of Transpatec (right) after five years of weathering simulation compared to standard fiberglass fabric.



Environmentally friendly and 100% Made in Germany:

The extraordinary surface of Transpatec is achieved through a newly developed coating process in 4 stages.

In addition to the improved cross point strength, this surface is responsible for the self-cleaning effect.

At the same time, this complex and environmentally friendly process is designed to be water-based.

This has made it possible to completely dispense with organic solvents and plasticizers, both in the thread and in the coating. As a result, Transpatec achieves the OEKO-TEX STANDARD 100 for products that come into contact with the skin.

Note: When using Transpatec, only environmentally friendly and PVC-free materials are used throughout the Neher insect protection element.

The entire manufacturing process of Transpatec, from the thread to the weaving process to the coating, takes place exclusively in Germany.