

PNV 7506 AS FG

An antistatic breathable polyester fabric with an ePTFE membrane coating on 1 side. The fabric has a Stainless-Steel matrix providing static dissipation of electrostatic energy.

Advantages

- 100% polyester needlefelt
- White
- Stainless Steel matrix for antistatic properties
- Good chemical resistance
- Air permeable
- For breather bags and flexible connectors
- ATEX suitable

Applications

Filter bags, breather bags, flexible sleeves, and flexible connections where there is a need for air permeable fabrics.

For machine setups where pressure fluctuations need to be vented continuously.



Availability

Available with many end connections

- Tri-clamp coupling
LFR / LFRc / LFDDC / WVl
- Jacob coupling
FDM / FSC
- Hose clamp sealed in
- Bolted Flange patterns
- snap-in fitting and snap band fitting,

Available with:

- Flat Top
- Hygienic Conical Top
- Loops and eyelets for mounting.
- with bottom
- Open on both sides
- Reinforcement rings in stainless steel or plastic.



Fully tailor made to your design and application.

Filcoflex B.V.

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General Properties

| | |
|------------------------------------|---|
| Product Name : | PNV 7506 AS FG |
| Description : | Polyester Needle Felt with Stainless Steel matrix One side with PTFE filter Membrane AntiStatic FoodGrade |
| Color : | White with matrix |
| Wall thickness : | 2.10 mm / 0.08267 Inch |
| Weight : | 500 grams /M ² |
| Chemical treatment : | none |
| Special treatment : | anti-static due to woven in stainless steel mesh matrix. |
| Conductivity : | < 10 ³ Ohm |
| Operating Temperature : | 150 °C / 302 °F dry |
| Max. Surge Temp : | 170 °C / 338 °F dry, maximum 6 Hours |
| Air Permeability : | 30 – 70 ltr/dm ² /min, at 20mm Water column (DIN53887) |
| Filtration Class : | < 0,10 % 0,06 M/sec class M Bia Norm |
| Type of Material : | Fabric on roll |
| Manufacturer Product Name : | 8305 FG |

Weighing Applications

PNV 7506 AS FG is suitable for Low volume batch sizes and high accuracy weighing and dosing applications due to the flexibility of the fabric.

Chemical Resistance

- Resistance against acid Good
- Resistance against solvents Good/average

Explosion Safety & ATEX

PNV 7506 AS FG has been tested for its electrostatic chargeability, the sample has been tested according to DIN 54345.



Test according to DIN 54345-1

Surface resistance R_{OT} (geometric median of the values of five measurements each):

- Side 1 (marked side): $R_{OT} = 6.7 \cdot 10^2 \Omega$
- Side 2 (back side): $R_{OT} = 2.0 \cdot 10^3 \Omega$

Volume Resistance R_{DT} (geometric median of the values of five measurements each:)

- $R_{DT} = 7.8 \cdot 10^2 \Omega$

Test according to DIN 54345-5

Strip resistance R_{St} in warp direction (arithmetic median of five samples).

- $R_{St30} = 1.6 \cdot 10^3 \Omega$

Strip resistance R_{St} in fill direction (arithmetic median of five samples).

- $R_{St30} = 2.7 \cdot 10^3 \Omega$

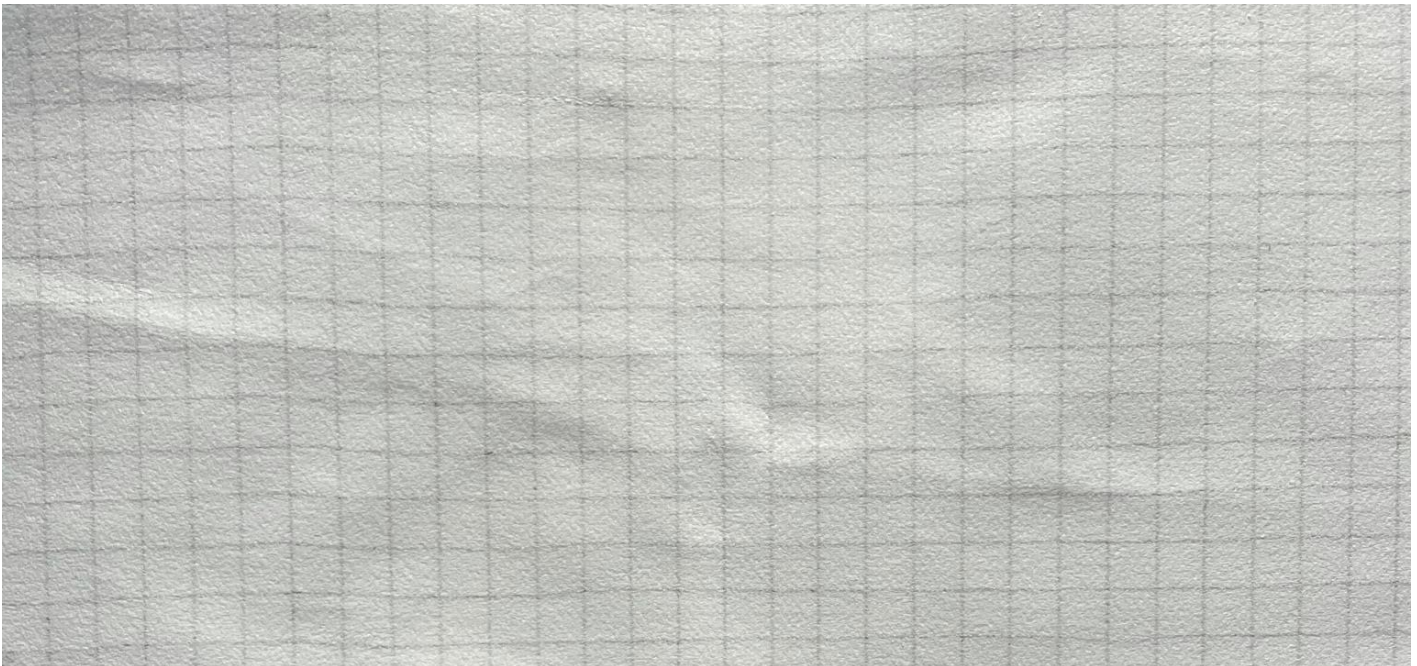
Test was carried out with a test voltage of 1 V.

Deviating from the provisions made in DIN 54 345, the test was conducted after at least 24 hours of storage at a temperature of 22 °C and a relative humidity of 34%.

The maximum permissible resistance value is: $10^8 \Omega$.

This Value was under-run in all measurements.

In an electrostatic sense, there is no objection to using the earthed filter material in hazardous places.



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Food Contact Compliancy

PNV7506 AS FG complies with the following regulations for plastics in repetitive contact with foods:



United States

- FDA 21 CFR 177.1590 polyester Elastomers
- Polyester Needlefelt
- FDA 21 CFR 175.300 Resinous and Polymeric Coatings ePTFE Membrane
- FDA 21 CFR 177.1550 Perfluorocarbon Resins ePTFE Membrane

European Community

- (EC) 1935/2004
- (EC) 10/2011
- (EC) 1282/2011
- (EC) 1183/2012
- (EC) 202/2013
- (EC) 2016/1416
- (EC) 2017/752
- (EC) 2019/37
- (EC) 2023-2006



Validation of Overall Migration

| Simulant | Test Time & Temperature | Migration Level | Overall Migration Limit (OML) (mg/DM ²) |
|--------------------|-------------------------|-----------------|---|
| B - 3% Acetic Acid | 10 Days @ 40°C | 4,1 | 10 |
| D2 - 95% Ehanol | 10 Days @ 40°C | 7,6 | 10 |
| D2 – Isooctane | 10 Days @ 40°C | 3 | 10 |
| E - Tenax | 2 Hours @ 150°C | 0,3 | 10 |

Other compliancy's

PNV 7506 AS FG complies with the following regulations and standards.

- Filtration Class; IFA test protocol filtration
- Eclectic conditions DEKRA 14EXAM 10538E

Production Methods used

Joining / Bonding:

- Stitching

Cutting:

- Stainless Steel knives
- Laser cutting

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