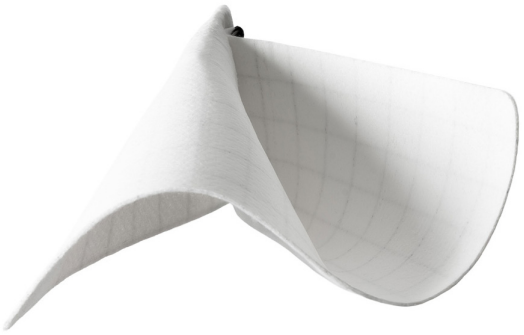
Product specification sheet

- Applicable for filter bags, breather bags, flexible sleeves, flexible connections with need for an air-permeable fabric and for machine setups where pressure fluctuations need contiuous venting
- Made from 100% Polyester needle felt with addition of a stainless steel matrix for antistatic properties
- Breathable, air-permeable fabric
- Good chemical resistance

Tags




Vibration


Oscillation

ATEX compliant

Food contact compliant

Physical properties

Material	Polyester Needle felt with Stainless steel matrix and one-sided ePTFE filter membrane
Color	White with light grey matrix
Surface texture	Coarse/Felt texture
Surface roughness	Ra < 3,2µm / Ra < 20,0µm
Wall thickness	2,10mm / 0.0827 inch
Areal density	0,5 kg/m^2
Hardness	69° Shore A
Tensile strength	-
Tear resistance	-
Surface resistance	≤ 2,0 × 10^3 Ω
Volume resistance	7,8 × 10^2 Ωm
Pressure resistance	-
Maximum elongation	-
Continuous operating temperature	Up to 150°C/302°F In dry conditions
Maximum surge temperature	170°C/338°F In dry conditions for a maximum of 6 hours
Low temperature flexibility	-
Air permeability	30-70 l/dm²/min At 20mm water column (DIN 53887)
Blackout characteristics	83,4% 5.952 lux of 35.947 lux
Type of material	Fabric on roll

Compliance

United States	FDA 21 CFR 177.11590 FDA 21 CFR 175.300 FDA 21 CFR 177.1550
European Community	EC 1935/2004 EC 2023/2006 EC 10/2011
Filtration class	IFA Test protocil filtration
Electrostatic conditions	DEKRA 14EXAM 10538E

Production methods

PNV 7506 AS FG will be joined together by stitching.

To create parts with the correct measurement, the material can be cut using either a stainless steel knife or laser cutter.

ATEX compliance

The material is tested on its electrostatic properties according to DIN 54345 (part 1 and 5) and as all meassured resistances stayed well below the maximum permissible value of $10^8\Omega$, there is no objection to using the material in hazardous places.

For the full test information, please refer to the "Electrostatic properties test report" in the downloads section of the material page.

Product examples

Below you will find images of products that are made with PNV 7506 AS FG, showing just a few of the possibilities the material offers. For questions or more information about the possibilities, please contact us!











Compliances

- ATEX compliant
- Regulation (EC) No. 1935/2004
- Grounding/earthing optional
- FDA 21 CFR
- Resistance to high temperatures
- Breathable/ Air-permeable
- Filter media with dust release surface

Industries

- Dairy
- Herbs and spices
- Grains, wheat and cereal
- Pharmaceutical
- Infant formula
- Coffee
- Minerals
- Paint, pigment & Lacquer
- Battery
- Recycling
- Sugar
- Toner
- Chemical