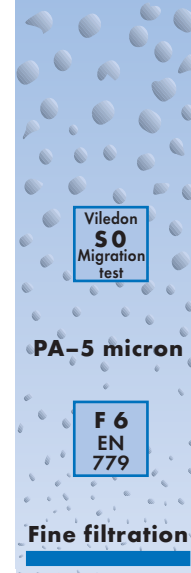


PA – 5 micron: In a class of its own – The first synthetic ceiling filter mat in Class F 6



viledon®

The filter

The main field of application for the PA – 5 micron filter mat is final intake air filtration in paint-spray processes involving particularly stringent requirements for air purity. As the first synthetic ceiling filter mat in Filter Class F6, it ensures practically 100% arrestance of particles > 5 µm. The PA – 5 micron thus meets even the toughest of quality stipulations in surface treatment technology.

The medium and its characteristic features

- ▶ The mat is made of **high performance nonwoven produced in-house** from elastic, **non-breaking polyester fibers**. This nonwoven is thermally bonded and specially smoothed on the clean air side, in order to achieve excellent fiber bonding. So as to ensure **permanent retention** of particles already collected **throughout the entire operating lifetime**, the fibers are in addition specially processed to give **each individual fiber an actively adhesive surface**.
- ▶ The filter medium is **progressive in structure**, with layers of differing fiber diameters being arranged behind each other so as to ensure that the density of the fiber layers increases towards the clean air side. This optimizes the filter performance and the dust holding capacity, resulting in **longer useful lifetime for the filter** concerned.
- ▶ **Fire behaviour:** Viledon filter media satisfy the stringent requirements of Fire Class F1 according to DIN 53438 and are **self-extinguishing**.
- ▶ **Certified quality:** PA – 5 micron has been **impartially type-tested** to EN 779. This offers all users the reassuring certainty that all filters will be supplied in consistently high standardized quality, documented by marking the filter mat with brand name, type designation, filter class, and DIN mark of conformity plus model validation number.

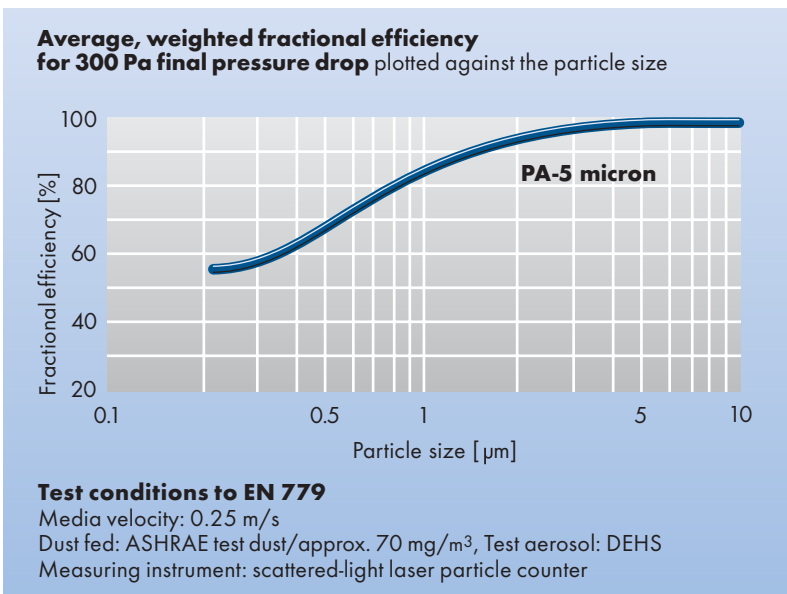
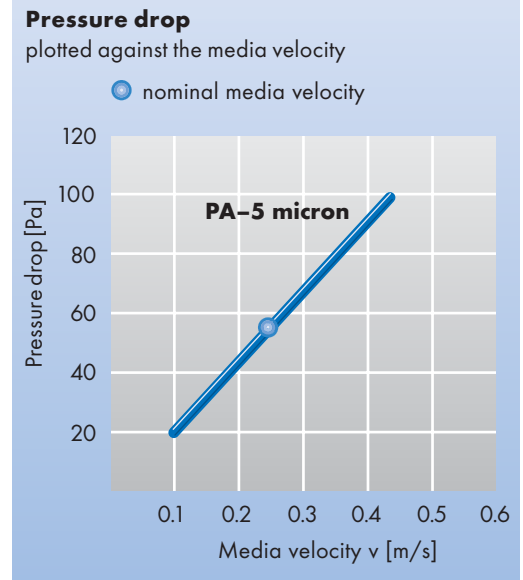
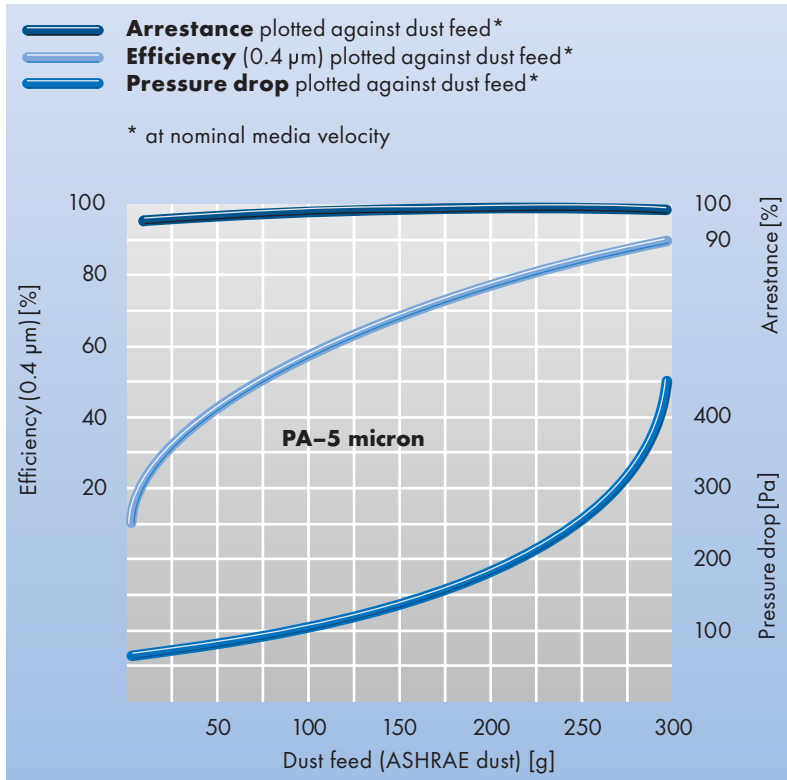
		PA-5 micron
▶ Weight, approx.	g/m ²	620
▶ Thickness, approx.	mm	25
▶ Thermal stability	°C	up to 100, briefly up to 120
▶ Moisture resistance, rel. humidity	%	up to 100
▶ Supplied as rolls, useful width/length	mm/m	2000/20
▶ Supplied as cut pieces	mm	Pieces cut to customer's specification

The special features of the PA – 5 micron

- ▶ With the PA – 5 micron, **not only particles measuring > 10 µm, but even those measuring > 5 µm are filtered out almost entirely**. Thus the PA – 5 micron ensures **outstanding production dependability for the user in all sophisticated paint-spray processes**.
- ▶ Due to the adhesive fiber surface, the PA – 5 micron is able to **permanently bond more than 3 kg/m² of free-flowing Aloxite dust**.
- ▶ PA – 5 micron qualifies for the **highest „SO“ class in the Viledon migration test** acknowledged throughout the market. For further information on this test, please consult our special „Surface Treatment“ brochure.
- ▶ The **reinforcing scrim on the clean air side** enhances the filter mat's stability and minimizes the risk of damage to the clean air side during installation.
- ▶ PA – 5 micron is **resistant to solvent vapours** and contains **no silicone**.

Freudenberg

Technical filter test data to EN 779



PA-5 micron			
▶ Average arrestance	A _m	%	99
▶ Average efficiency	E _m	%	70
▶ Nominal media velocity	●	m/s	0.25
▶ Initial pressure drop		Pa	58
▶ Recommended final pressure drop		Pa	250-300
▶ Dust holding capacity (ASHRAE dust)		g/m ²	300

The figures given are mean values subject to tolerances due to the normal production fluctuations. Our explicit written confirmation is always required for the correctness and applicability of the information involved in any particular case.