

THE PA DUO: THE PROFESSIONAL

FILTER MATS FOR GLEAMING PAINTWORK

FILTER TYPE	FILTER CLASS TO ISO 16890	FILTER CLASS TO EN 779:2012	MIGRATION TEST CLASS
PA / 500-10	ISO ePM10 50%	M5	S0
PA / 560 G-10	ISO ePM10 55%	M5	S0



The application

In surface treatment applications, the

- PA / 500-10
- PA / 560 G-10

filter mats are acknowledged as standard equipment. The main field of application for these fine filters is final intake air filtration in paint spray systems and booths.

The media and their characteristic features

- The mats are made of high performance nonwovens produced in-house from elastic, break-resistant polyester fibers. These nonwovens are thermally bonded and specially smoothed on the clean air side, in order to assure excellent fiber bonding. In addition, the fibers are specially processed to provide an actively adhesive surface.
- The filter media are 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 defined 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 F 1 according to DIN 53438 and are thus self-extinguishing.
- Certified quality: PA filter mats have been impartially type-tested according to EN 779 and ISO 16890 and are manufactured under our certified quality management system to ISO 9001. This offers all users the reassuring certainty that all filters will be supplied in consistently high standardized quality, documented by marking the filter mat on clean air side with brand name, type designation and filter class, as well as DIN mark of conformity plus model validation number for PA / 560 G-10.

The special features of the PA duo

- Both filter mats ensure practically 100% arrestance of particles > 10 µm which might cause visually perceptible surface imperfections. This means maximized protection against paintwork defects for the user.
- The actively adhesive surface of each individual fiber of the filter media ensures permanent retention of particles already collected throughout the entire operating lifetime.
- PA filter mats qualify for the highest “S 0” class in the Viledon® migration test acknowledged throughout the market. For further information, please consult our special brochure entitled “Surface Treatment Automotive”.
- PA / 560 G-10 additionally features a reinforcing scrim on the clean air side. This enhances the filter mat’s stability and reduces the risk of damage to the clean air side during installation.
- PA filter mats are resistant to solvent vapours and contain no silicone.

GEOMETRIES AVAILABLE		PA / 500-10	PA / 560 G-10
Nominal media velocity	m / s	0.25 - 0.5	
Weight approx.	g / m ²	500	580
Thickness approx.	mm	25	
Thermal stability	°C	up to 100, briefly up to 120	
Moisture-resistance (rel. hum.)	%	up to 100	
Supplied as rolls, useful width / length	mm / m	2,000 / 20	1,600 / 20 2,000 / 22
Supplied as cut pieces / rolls	mm	to customer’s specification	

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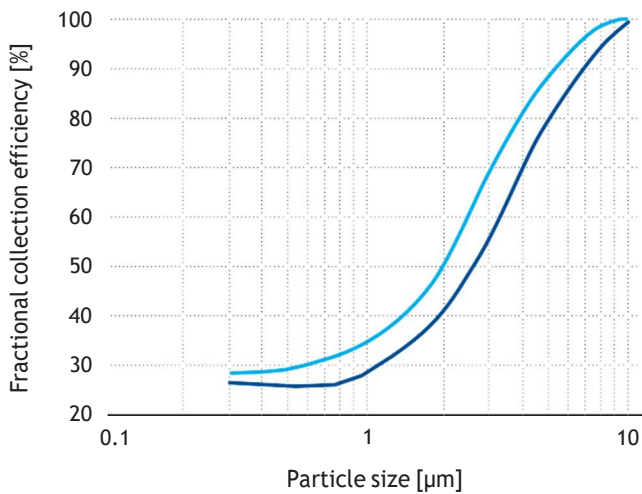
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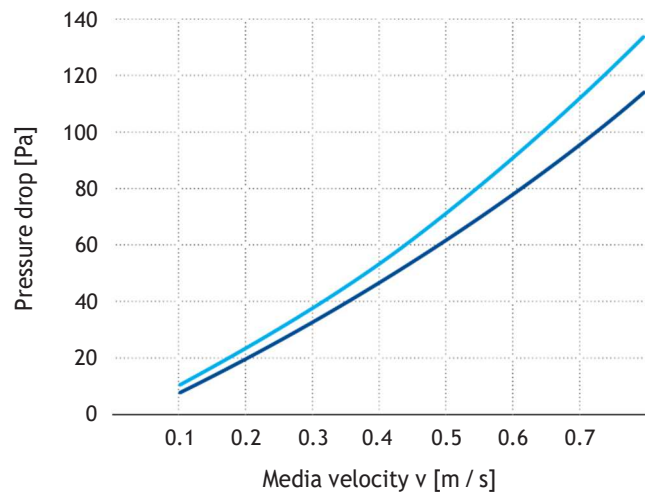
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AIR AND WATER TECHNOLOGIES

TECHNICAL FILTER TEST DATA TO EN 779 AND ISO 16890

Fractional collection efficiency curves



Initial pressure drop curves



— PA / 500-10 — PA / 560 G-10

Test conditions: Media velocity: 0.5 m/s, Test aerosol: DEHS, Measuring instrument: scattered-light particle counter

KEY DATA		PA / 500-10	PA / 560 G-10
Examination surface	m ²	1	
Nominal media velocity	m / s	0.25 - 0.5	
Initial pressure drop*	Pa	25	30
Class to ISO 16890**		ISO ePM10 50%	ISO ePM10 55%
Particulate matter efficiency			
ISO ePM1		10	11
ISO ePM2,5	%	15	17
ISO ePM10		50	55
Cut-off particle size	µm	10	
Filter class to EN 779:2012*		M5	
Recom. final pressure drop***	Pa	450	
Dust holding capacity approx. AC fine up to 300 Pa**	g / m ²	680	590

* Measured at 0.25 m / s

** Measured at 0.5 m / s

*** For cost-efficiency or system-specific reasons it may be appropriate to change the filters before reaching the final pressure drop stated. It can also be exceeded in certain applications.

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. Subject to technical alterations. You will find instructions on how to handle and dispose of loaded filters in our information on product safety and eco-compatibility.

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