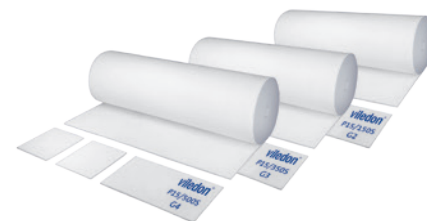


# FILTER MATS OF THE P 15 SERIES

## THE ULTRA-DURABLE FILTER MATS

| FILTER TYPE | FILTER CLASS | NOMINAL MEDIA VELOCITY [m/s] | TEST STANDARD |
|-------------|--------------|------------------------------|---------------|
| P 15/150 S  | G2           | 2                            | EN 779        |
| P 15/350 S  | G3           | 1.5                          | EN 779        |
| P 15/500 S  | G4           | 1                            | EN 779        |



### The application

The P 15 series comprises the following familiar and yet continually enhanced Viledon® filter mats

- P 15/150 S
- P 15/350 S
- P 15/500 S

All the types in this series are tough, high performance products, suitable for filtration in all kinds of ventilation systems.

### The media and their characteristic features

- The mats are made of **high performance nonwovens produced inhouse from elastic, break-resistant polyolefine fibers with thermal bonding.**
- P 15/350 S and P 15/500 S are **progressive in structure**, with layers 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 F1 according to DIN 53438 and are thus **self-extinguishing.**
- **Certified quality:** P 15 filter mats have been **tested according to EN 779** 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 with brand name, type designation and filter class.

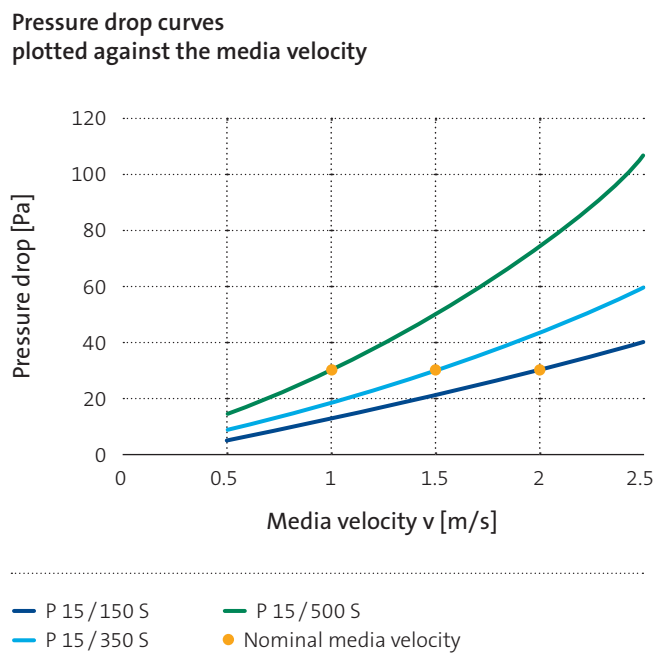
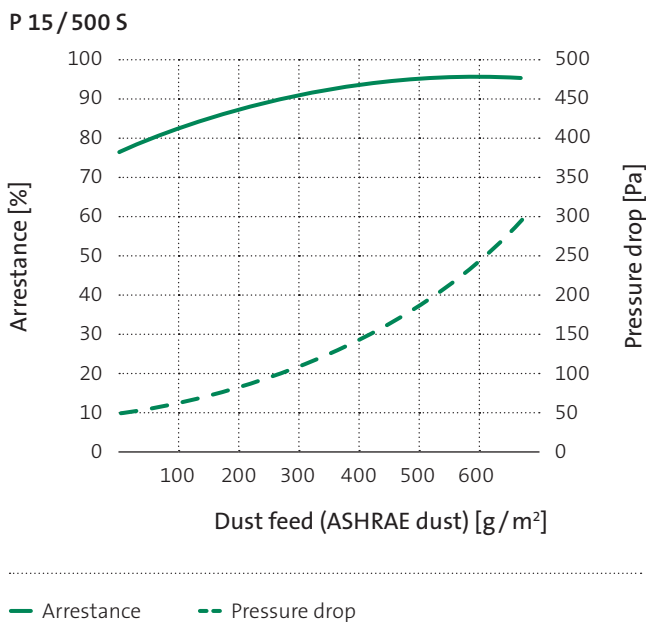
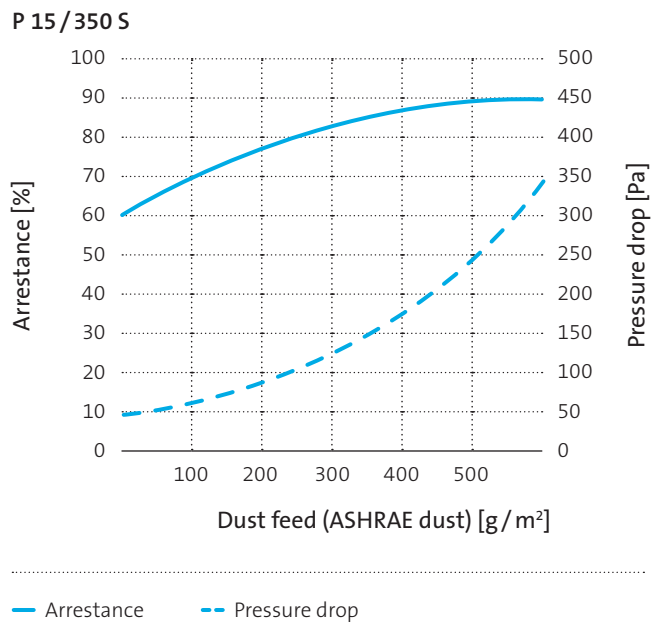
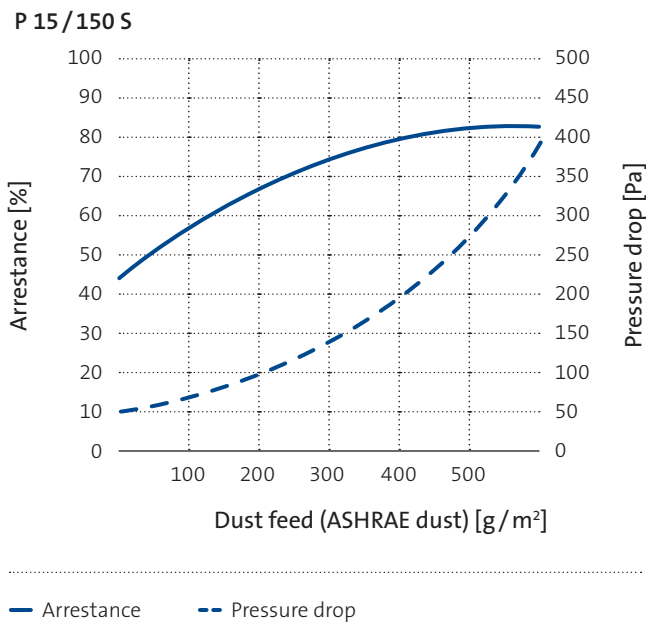
### The special features of the P 15 series

- High arrestance throughout their entire useful lifetime, thus providing **maximized operational reliability.**
- The **high mechanical strength of the material** used offers **good dimensional stability** throughout the operational lifetime, even when handling large air volumes, thus ensuring dependable operation of the filter system concerned.
- Thanks to the polyolefine fibers used in the medium, P 15 filter mats are **widely resistant to chemicals** like solvents, acids and alkalis. They must be protected against continuous UV radiation.
- The filter mats are **cleanable by careful washing, beating or spraying.** Even after washing, the filter mats remain dimensionally stable, thus retaining their technical filtering properties.
- Our environment-friendly filter series for users interested in **avoiding waste and cutting their filter costs.**

| GEOMETRIES AVAILABLE                     |                  | P 15/150 S                  | P 15/350 S | P 15/500 S |
|--|------------------|-----------------------------|------------|------------|
| Weight, approx.                          | g/m <sup>2</sup> | 100                         | 200        | 350        |
| Thickness, approx.                       | mm               | 8                           | 14         | 20         |
| Thermal stability                        | °C               | up to 100                   |            |            |
| Moisture-resistance (rel. hum.)          | %                | up to 100                   |            |            |
| Supplied as rolls, useful width / length | mm / m           | 2,000 / 40                  | 2,000 / 30 | 2,000 / 20 |
| Supplied as cut pieces / rolls           | mm               | to customer's specification |            |            |

# TECHNICAL FILTER TEST DATA TO EN 779

Arrestance and pressure drop plotted against dust feed at nominal media velocity



| KEY DATA               |                  | P 15/150 S | P 15/350 S | P 15/500 S |
|------------------------|------------------|------------|------------|------------|
| Examination surface    | m <sup>2</sup>   |            | 0.37       |            |
| Nominal media velocity | m/s              | 2          | 1.5        | 1          |
| Initial pressure drop  | Pa               |            | 30         |            |
| Initial efficiency     | E <sub>i</sub> % |            | < 20       |            |
| Average arrestance     | A <sub>a</sub> % | 75         | 84         | 94         |
| Final pressure drop*   | Pa               |            | 250        |            |
| Dust holding capacity  | g/m <sup>2</sup> |            | 600        |            |

\* 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.