

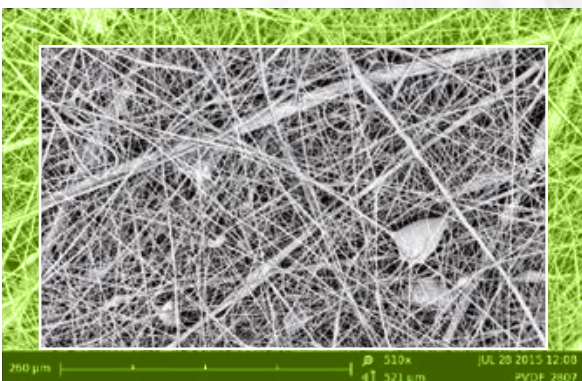
PVDF

NnF MBRANE® – PVDF

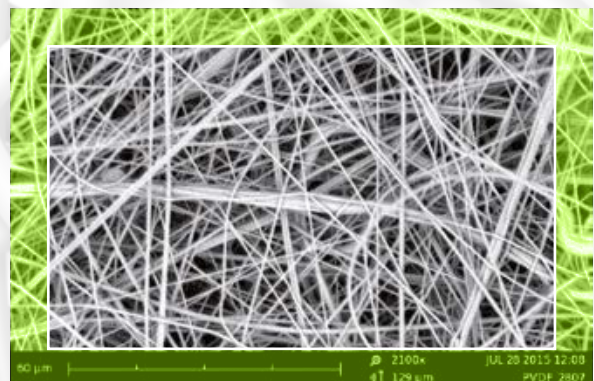
Product description

NnF MBRANE® – PVDF is a novel kind of nanofibrous membrane produced by industrial production technology operated by **PARDAM, s.r.o.** in the Czech Republic. Nanofibrous layer is deposited on the top of a supporting substrate with air permeating structure made of virtually any material on customers' request – woven/nonwoven textiles, filtration paper... or without support. Combination of the grammage of nanofibrous layer and the type of supporting substrate enables manufacturing of filtration membranes with different permeability and filtration efficiency, in accordance with customers demand! Excellent chemical resistance of PVDF enables the use of these nanofibers in chemical industry and the combination with high permeability, small pore size and high specific surface makes them suitable for high tech applications like chemically resistant filters, carriers and separators.

Images



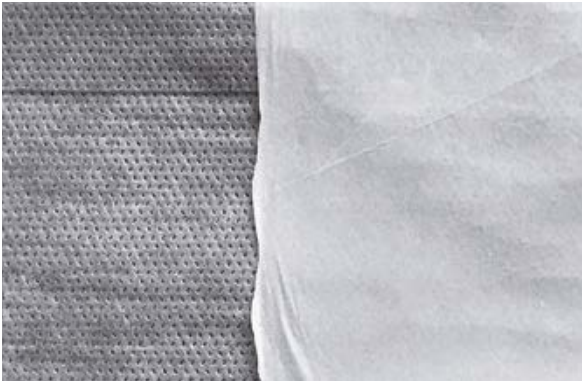
SEM image, magnification: 510x



SEM image, magnification: 2100x

Physical properties

■ Physical form and structure



Material characteristics

fiber structure	randomly oriented
typical fiber diameter	300-800 nm
fiber length	continuous
physical form	thin layer
grammage	0,5-15 g/m²
air permeability	40-500 l/min/dm²
width of the roll	max. 0,8 m
maximum length of the roll	2000 m
melting point	130 °C
vicat softening point	N/A

High permeability | Excellent chemical resistance | Flexibility
Peel-ability – it is possible to use nanofibrous layer without support material.

Type of the supporting substrate and grammage of nanofibrous layer determine the permeability and filtration efficiency of the membrane. These parameters can be modified in accordance with customers' demands.

Additional post-treatment available:
Lamination of nanofibrous membranes (double / triple sandwich material) | Doping with functionalized particles (Ag, ZnO, TiO₂... antibacterial function).

Please feel free to contact us for more information.

Applications

Air/gas filtration | Liquid/water filtration | Smart textiles/clothing | Separation processes | Battery separator

Important notice for purchaser

All statements, technical information and recommendations contained in this document are based on tests conducted by PARDAM's R&D team and its approved equipment and are believed to be reliable. However the accuracy or completeness of the tests is not guaranteed. THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. The manufacturer's and seller's only obligation will be to replace the quantity of the product proved to be defective. Neither the seller nor the manufacturer will be liable for any injury, loss or damage, direct, indirect or consequential, arising out of the use of the product. Before using, the user must determine the suitability of the product for their intended use.



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