

**GESSNER**a Matis
Brand

DELNET™ APERTURED FILMS



APERTURED FILMS MADE FROM LIGHTWEIGHT, NONWOVEN MATERIAL
TO BE USED AS PLEAT SUPPORT, MEDIA SUPPORT, SEPARATOR &
FLOW ENHANCEMENT

Our Delnet™ apertured films are a lightweight, nonwoven material made from a unique extrusion, embossing and orientation process.

They are an excellent solution for pleat support, permeate carrier, and flow enhancement & separator in the filtration and separation industries.

Delnet™ apertured films provide support across several air and liquid filtration applications including microelectronics due to its uniformity and cleanliness. They typically help support and separate delicate media, while offering controlled porosity that enhances even, turbulent flow in tight pleat packs while improving filter efficiency. Therefore it is also used as pleat support for cartridge filters.

OUR BENEFITS

- Different thicknesses from 2 mils to 12 mils
- Different basis weights available
- Tensile strength customizable
- Chemical formulation customizable
- Hole size customizable
- Geometry customizable

STRUCTURE & CUSTOMIZATION

Delnet™ apertured film is a lightweight, nonwoven hexagonal square material made from a unique extrusion, embossing and orientation process that creates a thin and consistent polymeric mesh in a variety of hexagonal and square patterns.

By varying process parameters, we can customize our Delnet™ apertured films to many different marketspecific requirements. We offer a variety of resins, thicknesses, widths, tensile strength, chemical formulations, hole size, geometry, additives and colorants to develop a material specifically designed to your market and application needs.

APPLICATIONS

Media Support & Permeate Carrier with Uniformity and Cleanliness

When it comes to air and liquid filtration, Delnet™ offers unparalleled support. Especially in the microelectronics industry its uniformity and cleanliness make it an ideal choice for applications requiring high precision and reliability.

Flow Enhancement for increased Filter Efficiency

One of the standout features of Delnet™ is its controlled porosity, which promotes even, turbulent flow within tight pleat packs. This not only improves filter efficiency but also ensures a more consistent filtration process.

Separation of Delicate Media

Designed to support and separate delicate media, Delnet™ provides the structural integrity necessary to maintain the performance of your filtration system. Whether used in cartridges or other types of filters, it helps to stabilize and protect sensitive filter media and components.

Pleat Support in Cartridge Filters

Delnet™ excels as pleat support for cartridge filters with its robust structure which helps maintaining the shape and functionality of pleats, ensuring long-lasting performance and durability.



SPECIFICATIONS	IMPERIAL	METRIC
THICKNESSES	0.002" to 0.012"	50 to 305 µm
BASIS WEIGHTS	0.29 to 2.95 oz/yd ²	10 to 100 gsm
WIDTHS	Up to 85"	Up to 2.15 m
HOLE SIZES	0.002" to 0.055"	50 to 1,400 µm
RESINS	Polypropylene Polypropylene - Low Volatile Polypropylene - Gamma Stable HDPE, HDPE - Metallocene (mH) TPX, ECTFE Co-Extrusions Include: HDPE/EVA, HDPE/SURLYN, HDPE/MAEC	
PRODUCT CERTIFICATIONS	FDA NSF USP Class VI CFR 21 ISO 10993-5	
SERVICES	Cutting, slitting, sheeting, laminating, ultrasonic welding, slabbing, die-cutting, orientation, heat-sealing, rewinding, custom packaging, antimicrobials, flame retardant, anti-static, colorants	