

Solupor[®]

E075-9H01A

Development product

Microporous Polyethylene Film

SOLUPOR[®] membranes are highly porous with high gas, air and liquid permeability. Combined with a controlled pore size, this makes SOLUPOR[®] suitable for a range of filtration applications. Made from Ultra High Molecular Weight Polyethylene, using a unique patented proprietary manufacturing technology.

Features

Hydrophilic, with Good Wetting Properties

Chemical Composition

Polymer (Ultra) High Molecular Weight Polyethylene

General Properties

| | Typical Value | Unit | Test Method |
|---------------------------------|---------------|------------------|-------------|
| Total Weight per Surface Area | 9 | g/m ² | MV 001 |
| Thickness | 35 | µm | MV 002 |
| Porosity | 74 | % | MV 001 |
| Air Permeability, Gurley number | 800 | s/50 ml | MV 006 |
| Mean Flow Pore Size | 0.1 | µm | MV 003 |

Additional Properties

| | Typical Value | Unit | Test Method |
|---|---------------|--------------------|--------------------------|
| Tensile Strength @ Machine Direction | 50 | MPa | MV 010 / ASTM D882-97 |
| Elongation at Break @ Machine Direction | 30 | % | MV 010 / ASTM D882-97 |
| Dimensional Changes @ 80 °C | | | |
| - Machine Direction | 0.3 | % | MV 009 |
| - Transverse Direction | 0.3 | % | MV 009 |
| Ion exchange Capacity | 1.1 | Meq/g | SC 130 |
| Electrical resistance *) | < 150 | mΩ.cm ² | SC 091 |

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