

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[®] membranes 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

Lydall Filtration/Separation SAS (Europe, Middle East & Africa Sales): Saint Rivalain, France, +33 (0) 2 97 28 5300

Lydall Solutech B.V.: Eisterweg 4, 6422 PN Heerlen, The Netherlands, +31 (0) 45 751 5212

E-mail: info_solupor@lydall.com -or- info@lydall.com

Web: www.solupor.com – or – www.lydallfiltration.com

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