

# Solupor®

## 5P09B

### 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

- Thin
- Highly porous

#### Chemical Composition

Polymer (Ultra) High Molecular Weight Polyethylene

#### General Properties

	Typical Value	Unit	Test Method
Total Weight per Surface Area	5	g/m <sup>2</sup>	MV 001
Thickness	38	µm	MV 002
Porosity	86	%	MV 001
Air Permeability, Gurley number	2	s/50 ml	MV 006
Mean Flow Pore Size	0.9	µm	MV 003

#### Additional Properties

	Typical Value	Unit	Test Method
Tensile Strength @ Machine Direction	8	MPa	MV 010 / ASTM D882-12
Elongation at Break @ Machine Direction	35	%	MV 010 / ASTM D882-12
Dimensional Changes @ 80 °C			
- Machine Direction	<1	%	MV 009
- Transverse Direction	<1	%	MV 009

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