

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

Large Pore Size

Highly Porous

Chemical Composition

Polymer (Ultra) High Molecular Weight Polyethylene

General Properties

	Typical Value	Unit	Test Method
Total Weight per Surface Area	7	g/m ²	MV 001
Thickness	45	µm	MV 002
Porosity	84	%	MV 001
Air Permeability, Gurley number	3	s/50 ml	MV 006
Mean Flow Pore Size	0.7	µm	MV 003

Additional Properties

	Typical Value	Unit	Test Method
Tensile Strength @ Machine Direction	10	MPa	MV 010 / ASTM D882-97
Elongation at Break @ Machine Direction	20	%	MV 010 / ASTM D882-97
Dimensional Changes @ 80 °C			
- Machine Direction	< 2	%	MV 009
- Transverse Direction	< 2	%	MV 009

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