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3P07A Version 7

Solupor® membranes

3P07A

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	*3.0*	g/m^2	MV 001
Thickness	*20*	µm	MV 002
Porosity	*83*	%	MV 001
Air Permeability, Gurley number	*1.4*	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	12	MPa	MV 010 / ASTM D882-12
Elongation at Break @ Machine Direction	13	%	MV 010 / ASTM D882-12
Dimensional Changes @ 80 °C			
- Machine Direction	< 2	%	MV 009
- Transverse Direction	< 3	%	MV 009

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

E-mail: info@lydall.com

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