

POLYETHERSULFONE SHEET MEMBRANE PRODUCTS

High Performance FDA-Approvable PES Sheet Membrane

SPECIFICATIONS

FDA-approvable Polyethersulfone Membrane for Food, Pharmaceutical, and Industrial Uses

PHYSICAL PROPERTIES

Membrane width:	40.0"	(1.02 m)
Thickness (including fabric backing):	0.0065"	(0.0165 cm)
Roll Length (increments):	820 linear feet	(250 m)

PERFORMANCE PROPERTIES

MODEL NUMBER	WATER FLUX	MARKER	% REJ.
PES2	30 Lmh/bar	2 K PEG	75
		6 K PEG	98
PES5	60 Lmh/bar	6 K PEG	93
PES10	90 Lmh/bar	10 K PEG	93
PES20	300 Lmh/bar	20 K PEG	98
PES900C/D	1,000 Lmh/bar	20 K PEG	97

Tests conducted at 30 psi (15 psi for MF) and 77°F (25°C) using non-fouling RO permeate for water flux, with 2,000 ppm concentration of marker added for rejection characterization.

PROCESS & USE RESTRICTIONS[‡]

Process pH Limitations:	2.0 -- 10.0
CIP pH Limitations:	1.5 -- 11.5
Maximum Process Temperature:	122°F (50°C)
Maximum CIP Temperature:	130°F (54°C)

SANITIZER LIMITS^{**}

SANITIZER	CIP			SANITIZING		
	ppm	pH	Max. Temp	ppm	pH	Max. Temp
Chlorine	150	10.5	130°F (54°C)	50	10.5	130°F (54°C)
Peracetic acid & H ₂ O ₂	2000 (500 as H ₂ O ₂)	3 - 7	77°F (25°C)	500 (125 as H ₂ O ₂)	3 - 7	77°F (25°C)

The process and CIP (clean-in-place) restrictions listed are on daily cleaning cycles of 4 hours total duration. Expected membrane life under these conditions is one (1) year. Consult factory for detailed warranty information.

‡ Recommended Nominal Values — Consult factory for process specific information

** Consult factory for detailed cleaning instructions