



POLYACRYLONITRILE SHEET MEMBRANE PRODUCTS

High Performance FDA-Approvable PAN Sheet Membrane

SPECIFICATIONS

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

PHYSICAL PROPERTIES

Thickness (including backing fabric):	0.0065 in (0.165 mm)
Active Membrane Width:	40.0 in (1.02 m)
Optional Roll Slit Width:	10 or 20 in (254 or 508 mm)
Roll Length (Increments):	410 ft (125 m)

PERFORMANCE PROPERTIES*

MODEL NUMBER	WATER FLUX (Lmh/bar)	MW of MARKER (Dalton)	MARKER REJECTION (%)
PAN50	140	20K PEG**	85
PAN200	300	20K PEG	80
PAN350	1,000	20K PEG	80
PAN400	600	20K PEG	75
PAN400C/D	1,000	20K PEG	75
PAN450	1,200	20K PEG	75

OPERATING PARAMETERS

Process pH Limitations:	3.0-10.0
CIP pH Limitations:	1.5-10.5
Maximum Process Temperature:	122 °F (50 °C) 212 °F (100 °C) for PAN350

CLEANER LIMITS***

CLEANERS	CIP		
	Concentration (ppm)	pH	Maximum Temperature
Chlorine	200	10	122 °F (50 °C) 212 °F (100 °C) for PAN350
Peracetic acid & H ₂ O ₂	2000 (500 as H ₂ O ₂)	3-7	77 °F (25 °C)

* Tests conducted at 30 psi and 77°F (25°C) using non-fouling RO permeate for water flux, with 2000 ppm concentration of marker added for rejection characterization.

** PEG — Poly(ethylene glycol)

*** Consult factory for detailed cleaning instructions

Note: Sepro's membrane products are not designed to be sterilized.

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