

# Coolshield™ PVDF Membrane

Cooley Engineered Membranes is pleased to introduce Cooley Coolshield™ PVDF Membrane, a new brand of Fluoropolymer membrane which utilizes our unique PVDF\* formulation. Coolshield™ PVDF was engineered for use in the Chemical, Safety, Medical and Food Industries.



## Cooley Coolshield™ PVDF Membrane:

- ▶ Meets FDA requirements (FDA No. 21 CFR 177.2510)
- ▶ Meets Dairy Industry 3A sanitary standards
- ▶ Chemical Resistant
- ▶ Non-Flammable
- ▶ U.V. Protection
- ▶ Excellent outdoor service life
- ▶ Excellent stability against harsh chemicals
- ▶ Excellent operating temperatures, (330°F intermittent, 300°F continuous)

\*PVDF is a fluorinated, semi-crystalline thermoplastic polymer obtained by radical polymerization of vinylidene fluoride.

## General Synthetic Membrane Properties

	Max Operating Temperature ° C	Acids	Alkalis	Oxidizing Agent	Hydrolysis
Polypropylene	95	E	E	P	F
Polyethylene	85	E	E	P	F
Polyester	100	G	F	F	P
Polyamide	100	P	G	P	P
PVC	80	G	G	F	G
Coolshield™	150	E	E	G	E
PTFE	150+	E	E	E	E

E = Excellent    G = Good    F = Fair    P = Poor