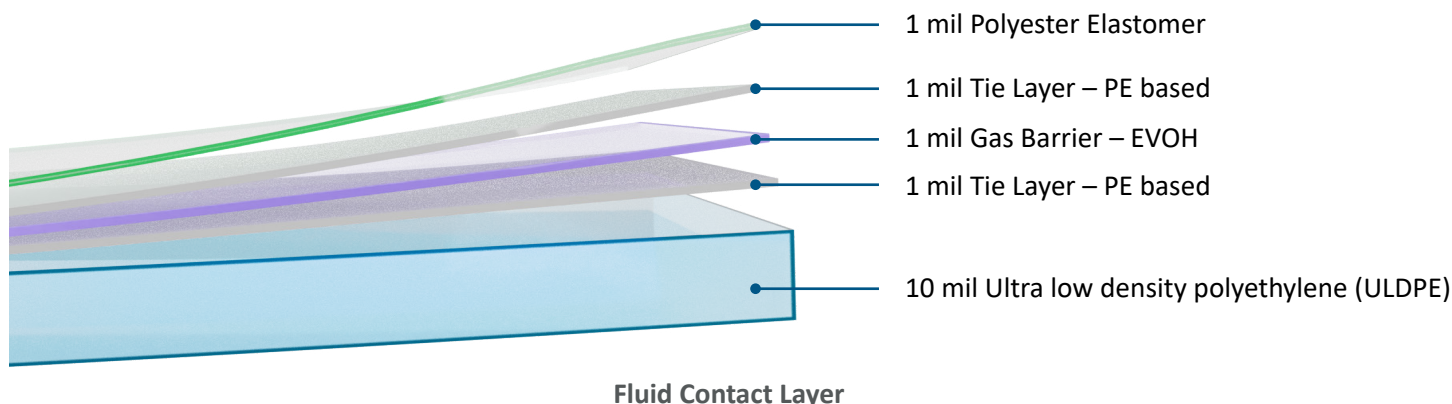


ProConnex® RG-V Film

State-of-the-Art, High-Purity Bioprocessing Film

Data Sheet

Repligen ProConnex® RG-V Film is a single-ply, 5-layer, 14 mil thick film developed specifically to meet the stringent quality standards of upstream and downstream single-use bioprocessing applications.



ProConnex RG-V Film Key Features

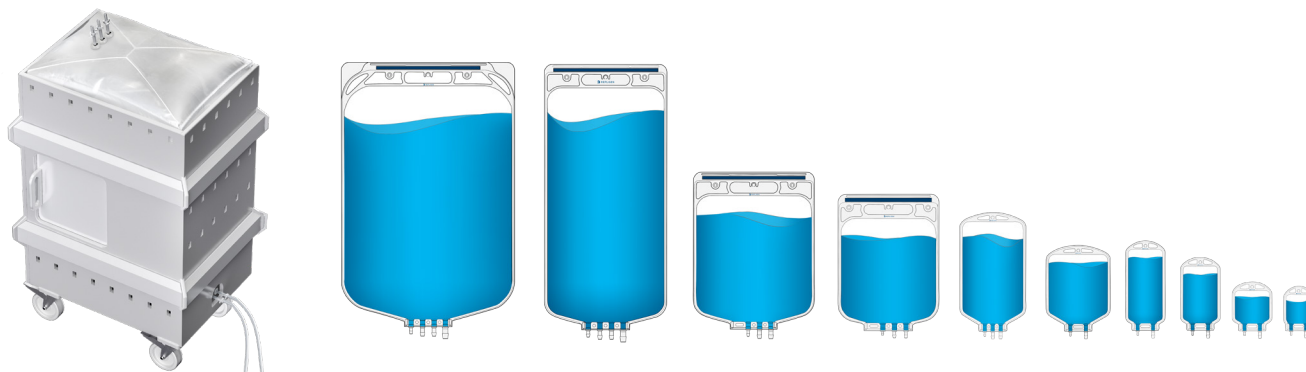
- Leak and puncture resistant
- Excellent flex crack resistance
- Optimal gas and water vapor barrier properties
- Non-animal origin formulation
- All film layers formulated without Irgafos 168
- Low coefficient of friction outer layer for enhanced durability and ease of installation

Engineering Quality Into Our Process

- Rapid, repeatable, automated manufacturing format
- Multiple films validated in our manufacturing processes
- ProConnex RG-V Film produced in an ISO-7 cleanroom
- Extractables testing completed per BPOG 2020 standards (post gamma irradiation >45 kGy)

ProConnex 2D and 3D Bags Manufactured to Meet Your Needs

- 2D bags available from 25 mL - 20 L
- 3D bags available from 50 L - 3000 L



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Test	Standard	ProConnex RG-V Film
Physical and Mechanical Properties		
Tensile Strength @ Break	ASTM D-882	2636 psi
Tensile Strength @ Yield		1007 psi
Tensile Elongation		738%
Young’s Modulus		30,450 psi
Abrasion Resistance (Cycles @ 400g)	ASTM F-3300	3839 cycles to failure
Puncture Resistance	ASTM F-1306	22 lbf
Coefficient of Friction (MD/TD)	ASTM D-1894	0.36, 0.41
Flex Crack Resistance (900 Cycles)	ASTM F-392	0 pinholes
Haze	ASTM D-1003	72%
Oxygen Transmission Rate (cm³ / m² /day)	ASTM F-1307	0.30
Water Vapor Transmission (cm³ / m² /day)	ASTM F 1249	0.48
Min Temperature	Internal	-80 °C
Max Temperature		60 °C
Biocompatibility Data*		
USP Class VI	USP <88>, ISO 10993-6,-10-,11	Pass
Cytotoxicity	USP <87>, ISO 10995-5	
Physiochemical	USP <661>	
Hemolysis	ISO 10993-4	Nonhemolytic
Bioburden	ISO 11737	Pass
Endotoxin	USP <85>	
Structural Data		
Animal Origin	NAO	Compliant
Particulates	USP <788>	Pass
Shelf Life	Accelerated 2-year	
Sterility Assurance Level (SAL)	10 ⁻⁶	

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*All tests are performed post-gamma irradiation at >45 kGy.

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