SureFlex[™] process container film

Millipore process containers are single-use flexible containers designed specifically for bioprocessing, storage and transport of biopharmaceutical fluids in sterile conditions. They are free of animal derived components.

Product Description

SureFlex process container film is manufactured utilizing a high purity, medical grade composite film designed to provide strength, flexibility (with maximum resistance to flex-crack), excellent gas barrier performance and inert contact. The fluid contact material is ethylene vinyl acetate (EVA). The gas barrier is made of polyethylene vinyl alcoholcopolymers (EVOH). The outer layer is made of LLDPE.



PHYSICAL DATA

(Post gamma irradiation at ≥ 25 kGy)

Properties	Tests	Typical Values
Tensile Strength*	ASTM® D638	3100 psi (21.37 MPa)
Elongation*	ASTM D638	650%
Tear Strength*	ASTM D-1004	555g/μ in.
Modulus at 100% Elongation*	ASTM D638	1050 psi (7.24 MPa)
Puncture Resistance*	FTMS 101B	22.4 lb£
Leak Testing	Air Pressure	20 in. H ₂ O/60 secs.
Oxygen Transmission (O ₂) Carbon Dioxide (CO ₂) Moisture Permeability	Testing performed at 25 °C ASTM D-3985 ASTM D-1434 E-96-80	0.28 cc/100 in.2/24 hrs. (435 cc/m2/24 hrs.) 0.58 cc/100 in.2/24 hrs. (9.02 cc/m2/24 hrs.) 0.11 g/100 in.2/24 hrs. (1.71 g/m2/24 hrs.)
Simulated Transit Testing (Filled bag chamber)	ASTM D-4169 (Level II)	Passed
Operating Temperature Range*		-94 to 158 °C (-70 to 70 °C)
Sterilization by Gamma Irradiation		≤40 kGy

BIOCOMPATIBILITY DATA

(Post gamma irradiation at ≥ 25 kGy)

Properties	Tests	Typical Values	
Intracutaneous Toxicity	USP Class VI	Passed	
Acute Systemic Toxicity	USP Class VI	Passed	
Muscle Implantation	USP Class VI	Passed	
Cytotoxicity Study		Passed	
Bacterial Endotoxin	USP <85>	Passed	
Heavy Metals	USP <661>	Passed	
Buffering Capacity	USP <661>	Passed	
Non-volatile Residuals	USP <661>	Passed	
Residue on Ignition	USP <661>	Passed	
Physicochemical	USP <661>	Passed	
Hemolysis	ISO 10993-4	Passed	

^{*} Data pre-gamma irradiation.

Note: These are typical data for SureFlex film. Typical values are with a 95% confidence interval.



^{**} Freezing requires the film to be supported.

Go Mobius

SureFlex film is a Mobius flexible bioprocessing technology and part of a suite of products that together provide an integrated disposable solution to improve process efficiency in biopharmaceutical development and manufacturing. From disposable process containers to capsule filters and connectors, to validated, gammacompatible turn-key assemblies, Mobius solutions provide faster turnaround time and reliable performance, right out of the box.



To Place an Order or Receive Technical Assistance

In the U.S. and Canada, call toll-free 1-800-MILLIPORE (1-800-645-5476)

In the U.S., Canada and Puerto Rico, fax orders to

1-800-MILLIFX (1-800-645-5439)

Outside of North America contact your local office.

To find the office nearest you visit www.millipore.com/offices

Internet: www.millipore.com

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