

NxFlex™ F1000C Film

PRODUCT DESCRIPTION

NxFlex F1000C is a medical grade multi-layer film specifically designed for high performance bioprocess applications, particularly cell culture bags on rocking platforms. This film is designated for use in high flexure applications that require exceptional toughness and maximum resistance to flex-cracking.

FILM CONSTRUCTION

The Inner solution contact layer, is a custom formulated EVA/LLDPE copolymer designed with the purpose of minimizing extractables. An additional polyethylene (PE) layer is then added to this composite film.

To minimize gas diffusion, a layer of polyethylene vinyl alcohol copolymers (EVOH) is coextruded between two layers of medical grade polyethylene (PE) to provide excellent gas barrier properties.

The Outer, non-contact layer is medical grade polyethylene (PE) created from the outer surface of the PE/EVOH coextrusion.

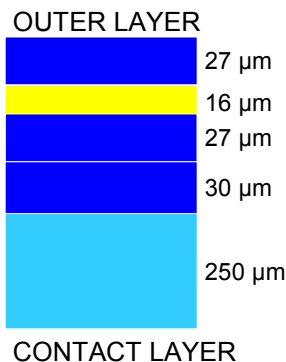
The combination of these specially selected film layers creates a visually clear and flexible multi-layer film that exhibits maximum flex-crack resistance.

VALIDATION

All NxFlex™ films undergo extensive physical and biocompatibility testing before release. We supply a Certificate of Conformance with each shipment to ensure adherence to specifications and for lot traceability.

ANIMAL DERIVED COMPONENT FREE

In the production of NxFlex™ films, no animal derived components or materials are used in the manufacturing process. The films



Physical Data Characteristics		
PROPERTY	TEST PROTOCOL	AVERAGE VALUES
Film Gauge		350 µm
Tensile Strength (MD) (N/15mm)	ASTM D882	64.1 N/15mm
Tensile Strength (TD) (N/15mm)	ASTM D882	64.5 N/15mm
Ultimate Elongation (MD)(%)	ASTM D882	552%
Ultimate Elongation (TD)(%)	ASTM D882	619%
Oxygen Transmission Rate	ASTM D3985	1.74 cc/m ² /day
Moisture Vapor Transmission Rate	ASTM F1249	1.23 g/m ² /day
Solution Contact Material		EVA/LLDPE Blend
Temperature Range		0°C to 60°C
Sterilizable Range		25kGy to 50kGy

Biocompatibility Data (Post Gamma Irradiation @ min. 25kGy)*		
PROPERTY	TEST PROTOCOL	AVERAGE VALUES
USP Class VI	USP 26 <88>	Pass
Cytotoxicity	USP 26 <87>	Pass
Non Volatile Residue	USP 26 <661>	<2 mg
Heavy Metals	USP 26 <661>	<1 ppm
Buffering Capacity	USP 26 <661>	<1 mL

* All biocompatibility testing performed by Toxikon Corporation, Bedford, MA.



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Single Use BioProcess Containers

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