

Product Data Sheet

Series 90 - EPDM Accordion Sleeve & Butyl Glove Assembly

GENERAL DESCRIPTION

The 90 Series Accordion Sleeve and Glove Assembly is engineered to provide a secure, chemical-resistant interface for controlled environments such as glove boxes, isolators, and containment systems. The assembly integrates a flexible EPDM accordion sleeve with a precision-fitted butyl glove, forming a unified barrier with excellent resistance to gases, vapors, and aggressive chemicals. The accordion sleeve is designed to maintain integrity under repeated compression and extension, while the butyl glove offers high impermeability and mechanical protection. This assembly is suitable for operations requiring reliable containment, ergonomic mobility, and long-term durability under demanding use conditions.

DESCRIPTION

- Sleeve Material: EPDM (accordion-style)
- Glove Material: Butyl rubber, 15mil & 25 Mil
- Unstretched Length: 22"
- Extended Length: 32"
- Available Glove Sizes: 7, 8, 9, 10, 11
- Sleeve Color: Blue
- Glove Color: Black
- Port Compatibility: Fits standard 8" and 10" circular glove ports



RECOMMENDED APPLICATION

For use in Pharmaceutical isolators, Aseptic and sterile filling lines, Cleanroom gloveboxes, High-containment biotech environments and Cytotoxic drug compounding.

TECHNICAL SPECIFICATIONS


- Flexibility & Dexterity: Good flexibility and excellent memory retention; sleeve supports full range of motion with minimal resistance..
- Operation temperature: -25°C to +70°C.
- UV and Ozone Resistance: Excellent; suitable for environments with indirect UV exposure
- Excellent resistance to: Mineral acids (sulfuric, nitric, hydrochloric), ketones (e.g., acetone, MEK), aldehydes, esters, and alcohols (ethanol, isopropanol).
- Good resistance to: Organic solvents (e.g., ethyl acetate), some amines.
- Not compatible with: Aromatic hydrocarbons, petroleum-based oils, chlorinated solvents.
- Microbial Barrier: Non-porous structure provides effective barrier to particles and microorganisms.
- Compatible with cleanroom and aseptic protocols
- Gloves meet the norm EN374-1 Type A ABCIKLMNPST (chemical and micro-organic hazards).
- Abrasion resistance (according to EN388): Level 2
- Cut resistance (according to EN388): Level 1



- Tear resistance (according to EN388): Level 1
- Puncture resistance (according to EN388): Level 0

STORAGE AND CLEANING

Clean the glove and sleeve assembly using a mild pH-neutral detergent or a compatible disinfectant solution. After cleaning, rinse thoroughly with deionized or clean water to remove any residues. Allow the components to air dry completely before reuse. For storage, keep the assembly in a cool, dry, and shaded environment away from direct sunlight, heat sources, or ozone-generating equipment. Avoid folding or compressing the sleeve or glove to preserve material integrity and sealing performance. Store in a manner that prevents deformation or stress on the attachment points.

BUTYL GLOVE TESTING SPECIFICATIONS

MECHANICAL RISKS							
EN 388:2016 +A1:2018  2110X	Performance Level		1	2	3	4	5
	(a)	Abrasion Resistance (Cycles)	100	500	2000	8000	-
	(b)	Blade Cut Resistance (Index)	1.3	2.5	5	10	20
	(c)	Tear Resistance (Newtons)	10	20	50	75	-
	(d)	Puncture Resistance (Newtons)	20	60	100	150	-
X: indicates that the glove has not been tested or the test method appears not to be suitable for the glove design or material.							
0: indicates that the glove falls below the minimum performance level for the given individual hazard.							

PERMEATION AND DEGRADATION RISKS							
EN ISO 374-1 Type A  ABCIKLMNPST	Chemical	Level	Permeation Level		Permeation Time		
	(A)	Methanol	6	Level 1		> 10 Min	
	(B)	Acetone	6	Level 2		> 30 Min	
	(C)	Acetonitrile	6	Level 3		> 60 Min	
	(I)	Ethyl acetate	4	Level 4		> 120 Min	
	(K)	40% Sodium hydroxide	6	Level 5		> 240 Min	
	(L)	96% Sulphuric acid	6	Level 6		> 480 Min	
	(M)	65% Nitric acid	6	Test	Result	Test	
	(N)	99% Acetic acid	6	PAHs	Pass	Water Leak Test	Pass
	(P)	30% Hydrogen Peroxide	6				
(S)	40% Hydrofluoric acid	6	Phthalate	Pass	Air Leak Test	Pass	
(T)	Formaldehyde 37%	6					
EN ISO 374-5  VIRUS	Test			Result			
	ISO 16604:2004 for Resistance to penetration by blood-borne pathogens - test method using Phi-X174 bacteriophage.			Protection against Bacteria and Fungi	Pass		
			Protection against Viruses	Pass			