

Butadyl® PPE - Technical Data Sheet

Butadyl® is a cost-effective alternative to Hypalon®, Neoprene, or Butyl in many applications. It performs well in situations in which vaporized hydrogen peroxide (VHP) is involved. It also offers strong resistance to particularly harmful agents, such as: aromatic hydrocarbons, petroleum solvents, and lipids. It is an ideal material that maintains consistency when faced with the presence of ozone or sun, and is not prone to induce allergic reactions.

GENERAL INFORMATION							
Code	Item	Palm	Port	Length	Thickness	Country of Origin	
7030/12	Sleeve	-	8	27in	18 mil / 25 Mil	United States of America	
7030/15	Sleeve	-	9/10	27in	18 mil / 25 Mil	United States of America	
7030/18	Sleeve	-	11/12	27in	18 mil / 25 Mil	United States of America	
3532/12	Glove	AMB - 8/9/10	8	32in	18 mil / 25 Mil	United States of America	
3532/15	Glove	AMB 9	9/10	32in	18 mil / 25 Mil	United States of America	
All items are produced with a rolled bead with an no bead option available upon request.							
MECHANICAL RISKS							
	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	-
PERMEATION AND DEGRADATION RISKS							
 AGJKLMNOPTS	Chemical		Level	Permeation Level		Permeation Time	
	(A)	Methanol	2	Level 1		> 10 Min	
	(G)	Diethylamine	2	Level 2		> 30 Min	
	(J)	n-Heptane	6	Level 3		> 60 Min	
	(K)	40% Sodium Hydroxide	6	Level 4		> 120 Min	
	(L)	96% Sulphuric Acid	4	Level 5		> 240 Min	
	(M)	65% Nitric acid	3	Level 6		> 480 Min	
	(N)	99% Acetic acid	3	Test	Result	Test	Result
	(O)	25% Ammonium Hydroxide	6	PAHs	Pass	Water Leak Test	Pass
	(P)	30% Hydrogen Peroxide	6				
	(T)	37% Formaldehyde	6	Phthalate	Pass	Air Leak Test	Pass
	(S)	40% Hydrofluoric acid	4				
	Test				Result		
	ISO 16604:2004 for Resitance to penetration by blood-borne Pathogens-test method using Phi-X174 bacteriophage.		Protection against Bacteria and Fungi		Pass		
			Protection against Viruses		Pass		
ASTM D6978-05 (2019): Permeation by Chemotherapy Drugs							
Chemical			Permeation Time		Chemical		Permeation Time
20mg/ml Cyclophosphamide			>240 Min		50mg/ml Fluorouracil		>240 Min
2mg/ml Doxorubicin hydrochloride			>240 Min		6mg/ml Paclitaxel		>240 Min
20mg/ml Etoposide			>240 Min		10mg/ml ThioTEPA		>240 Min
3.3mg/ml Carmustine			>240 Min		0.5mg/ml Mitomycin		>240 Min
10mg/ml Carboplatin			>240 Min				

WARNING: This document does not represent the actual duration of protection in various workplace environments, nor does it distinguish between different compounds and products made from pure chemicals. The chemical resistance of these protective items has been assessed under controlled laboratory conditions, primarily using samples from the palm area for gloves, and relevant areas for sleeves. In cases where items with a cuff length of 400mm or longer were available, these have also been evaluated. It is important to note that the chemical resistance observed in a laboratory setting may differ when the protective items are used with chemical compounds as opposed to pure chemical substances. Users are strongly advised to verify the suitability of these items for their intended application, considering that workplace conditions (such as temperature, abrasion, and material degradation) can vary significantly from those in laboratory tests. When in use, these protective items may exhibit diminished resistance to hazardous chemical agents, potentially due to alterations in their physical properties. Factors such as stretching, tearing, scraping, or degradation from contact with chemical substances can substantially decrease the items' effective service life. In the context of corrosive chemical products, degradation should be considered a critical factor in selecting chemical agent-resistant protective items. We recommend a thorough inspection of the protective items prior to use to ensure they are free from defects. It is important to note that the penetration resistance of these items has been evaluated solely under laboratory conditions and pertains specifically to the tested item.

Cleaning: Clean surface with either hydrogen peroxide, alcohol or soapy water. This items are not designed for laundering

Storage: Store in original opaque packaging in a normal, dry and ventilated area away from dust, sunlight, moisture and excessive heat.

Shelf Life: 3 years from production date when stored in the original package following storage recommendations at 46°F - 85°F (8°C - 29°C).