



BUTOFLEX™/651

Description:

Comfortable medium weight unlined Butyl with **unique Z-pattern design** provides secure grip for handling items in wet environments. Comfortable hand design with rolled cuff to catch drips and attach gloves to chemical suits. Specially designed ergonomic glove former to enhance user comfort, dexterity and tactility.

Superior Chemical Resistance against very corrosive acids, ketones, esters and amine derivatives.



Applications:

- Hazardous waste cleanup
- Chemical Processing and sampling
- Metal coating chemical process

Product Specs:

Polymer:	butyl	Thickness:	20 mil (0.50mm)
Length:	14'	Color:	Black
Grip:	Z-pattern	Lining:	unlined
Cuff:	Rolled		

Ordering Information:

Catalog Number	Size	Unit of Measure	Case Quantity	Case Wt. Lbs.
651317	7	pair	6	2
651318	8	pair	6	2
651319	9	pair	6	3
651310	10	pair	6	3

Chemical Resistance Data

Glove Name - Polymer Chemical Name CAS Number	Overall Chemical Protection Rating	Permeation		Degradation				Puncture Rating	
		Conc.	Breakthrough Time Mins	Rate µg/cm ² /min	% Wgt. Chg. (in minutes)	5	30		60
BUTOFLEX™ / 651 - butyl									
1,3 Butadiene 106-99-0	98%		303	NT	NT	NT	NT	NT	NT
1,4-Dioxane 123-91-1	98%		>480	NT	NT	NT	NT	NT	NT
Acetone 67-64-1	98%		>480	NT	NT	NT	NT	NT	NT
Acetonitrile 75-05-8	98%		>480	NT	NT	NT	NT	NT	NT
Ammonia 7664-41-7	98%		>480	NT	NT	NT	NT	NT	NT
Ammonium Hydroxide 1336-21-6	98%		>480	NT	NT	NT	NT	NT	NT
Aniline 62-53-3	98%		>480	NT	NT	NT	NT	NT	NT
Butyl Methacrylate 97-88-1	99%		90	13	NT	NT	NT	NT	NT
Chlorine (gas) 7782-50-5	98%		>480	NT	NT	NT	NT	NT	NT
Cyclohexanone 108-94-1	98%		>480	NT	NT	NT	NT	NT	NT
Dimethyl Sulfate 77-78-1	99%		>480	ND	NT	NT	NT	NT	NT

Ethyl acetate 141-78-6	98%	162	NT	NT	NT	NT	NT
Ethyl Methacrylate 97-63-2	99%	81	20	NT	NT	NT	NT
Hydrochloric Acid 7647-01-0	98%	>480	NT	NT	NT	NT	NT
Hydrofluoric Acid (Hydrogen fluoride) 7664-39-3	47%	>480	NT	NT	NT	NT	NT
Isobutyl Methacrylate 97-86-9	99%	105	19	NT	NT	NT	NT
Methanol 67-56-1	98%	>480	NT	NT	NT	NT	NT
Methyl acetate 79-20-9	99%	273	NT	NT	NT	NT	NT
Methyl Ethyl Ketone (2-Butanone) 78-93-3	98%	385	NT	NT	NT	NT	NT
Methyl Isobutyl Ketone 108-10-1	98%	340	NT	NT	NT	NT	NT
N,N-Dimethylacetamide 127-19-5	99%	>480	NT	NT	NT	NT	NT
Nitrobenzene 98-95-3	98%	>480	NT	NT	NT	NT	NT
Sodium Hydroxide 1310-73-2	40%	>480	NT	NT	NT	NT	NT
Sulfuric acid 7664-93-9	96%	>480	NT	NT	NT	NT	NT
Vinyl Acetate 108-05-4	99%	212	NT	NT	NT	NT	NT

Overall Chemical Protection Rating

Protection rating is determined by taking into account the effects of both permeation and degradation in an attempt to provide users with an overall protection guideline when using our glove products against specific chemicals

- 0** For Splash Protection Only, change glove immediately when chemical contacts glove
- 1** Change glove after 5 to 30 minutes of exposure to chemical
- 2** Change glove after 31 to 60 minutes of exposure to chemical
- 3** Change glove after 61 to 180 minutes of exposure to chemical
- 4** Change glove after 181 to 300 minutes of exposure to chemical
- 5** Change glove after 301 to 480 minutes of exposure to chemical

ASTM F739 Permeation Key

NT = Not Tested
 ND = None Detected
 NRD = No Rate Determined
 $\mu\text{g}/\text{cm}^2/\text{min}$ = Micrograms per square centimeter per minute
 > Greater than
 < Less than

ASTM D471 Degradation Key

Weight Change	Performance Rating
0 - 10%	Excellent
11 - 20%	Good
21 - 30%	Fair
Over 30%	Poor

ANSI/ISEA 105-2000 Puncture Degradation Key

- Level 0** greater than 80% Change in puncture
- Level 1** less than or equal to 80% Change in puncture
- Level 2** less than or equal to 60% Change in puncture
- Level 3** less than or equal to 40% Change in puncture
- Level 4** less than or equal to 20% Change in puncture

The chemical test data and overall chemical protection rating should not be used as the absolute basis for glove selection. Actual in-use conditions may vary glove performance from the controlled conditions of laboratory tests. Factors other than chemical contact time, such as concentration and temperature, glove thickness and glove reuse, may also affect performance. Other glove requirements, such as length, dexterity, cut, abrasion, puncture and snag resistance, or glove grip also need to be considered in making your final selection.