ISO 9001:2000 Registered

GUARDIAN

CHEMICAL PROTECTIVE GLOVES

by Guardian Manufacturing Company

Standard Butyl Glove

Style # CP-25, CP-14, and CP-7

Standard X-Heavy Butyl Glove

Style # IB-35

www.guardian-mfg.com

The Standard Butyl	Our basic model that protects against a wide range of chemicals. Available in three thicknesses to meet your specific needs for protection and dexterity. Curved-hand design for comfortable use.	**Length** . . . . . 14″ **Sizes** . . . . . x-sm., sm., med., lg., x-lg **Thicknesses** . . light, mediium, heavy **Finishes** . . . . . smooth or rough-grip **Design** . . . . . straight-hand
The Standard Butyl X-Heavy	A heavier version of the Standard Butyl for additional protection. Straight-hand design. Smooth finish only.	**Length** . . . . . 14″ **Sizes** . . . . . 9,10,11,12 **Thicknesses** . . x-heavy **Finishes** . . . . . smooth **Design** . . . . . straight-hand

CHEMICAL	Break Through time (min.)	Permeation rate (ug/cm2-min.)
1, 1, 1 Trichloroethane	NT	NT
1, 3 Butadiene	303	0.3
Acetaldehyde	4	2.1
Acetic Acid (glacial)	ND	NA
Acetone	ND	NA
Acetonitrile	ND	NA
Ammonia	ND	NA
Ammonium Hydroxide	ND	NA
Ammonium Nitrate	ND	NA
Aniline	ND	NA
Benzene	NT	NT
Butyl Acetate	94	10
p-tert-Butyl Toluene	91	>32
Carbinol	ND	NA
Carbon Disulfide	<4	>500
Chlorine	60	>50
Chloromethane	176	0.9
Chlorothene	NT	NT
Cyclohexane	4	>23
Cyclohexanol	ND	NA
Cyclohexanone	ND	NA
Dibutyl Phthlate	ND	NA
Diethylamine	27	>500
Dimethylacetamide (DMAC)	480	NA
Dimethylformamide (DMF)	ND	NA
Dioxane	ND	NA
Divinyl Benzene	54	>64
Ethanal	4	2.1
Ethanamine	ND	NA
Ethyl Acetate	253	>500
Ethyl Alcohol	ND	NA
Ethyl Aldehyde	4	2.1
Ethyl Benzene	NT	NT
Ethylamine	ND	NA
Ethylene Oxide	173	3.53
Flouhydric Acid	ND	NA

CHEMICAL	Break Through time (min.)	Permeation rate (ug/cm2-min.)
Gasoline	NT	NT
N-Hexane	4	>500
Hydrochloric Acid (37%)	ND	NA
Hydrofluoric Acid (49%)	ND	NA
Hydrogen Chloride	ND	NA
Hydrogen Fluoride (99%)	15	>100
Methyl Alcohol	ND	NA
Methyl Chloride	176	0.9
Methyl Ethyl Ketone (MEK) 99%	376	1.1
Methyl Isobutyl Ketone (MIBK) 99.5%	340	1.1
Methylene Chloride	20	>500
Methylchloroform	NT	NT
Muriatic Acid	ND	NA
N-ethylethanamine	27	>500
Nitric Acid (conc.)	ND	NA
Nitric Acid (red fuming)	NT	NT
Nitrobenzene	ND	NA
Nitropropane	ND	NA
Oleum	270	>500
Pentachlorophenol	NT	NT
Pentane	NT	NT
Phenol	NT	NT
Phenylamine	ND	NA
Phosphoric Acid	ND	NA
Potassium Hydroxide	ND	NA
Propyl Acetate	109	19
Sodium Hydroxide	ND	NA
Sulfuric Acid	ND	NA
Sulfuric Acid (fuming)	270	>500
Tetrachloroethylene	<4	>500
Tetrahydrofuran	25	>500
Toluene	28	>500
Toluene Diisocyanate	NT	NT
Xylene	NT	NT
Vinylethylene	75	NA

CHEMICAL	Style #CP-25 BUTYL HVY. WT. b/t min.	rate	Style #CP-14 BUTYL MED. WT. b/t min.	rate	Style #CP-7 BUTYL LT. WT. b/t min.	rate
methylisobutyl ketone MIBK 99.5%	340	1.3	NT	N/A	68	7.6
methyl ethyl ketone (MEK)	376	1.1	116	55	NT	N/A

LIGHT WEIGHT = 7 mil thickness MEDIUM WEIGHT = 14 mil thickness
HEAVY WEIGHT = 25 mil thickness X-HEAVY WEIGHT = 35 mil thickness

Tests performed on Style CP-25 (heavy weight) except as indicated. All tests above performed per ASTM F739 by TRI/Environmental, Inc. at ambient temperature for 8 hours. Tests were performed under laboratory conditions and do not represent actual usage conditions. TRI/Environmental makes no warranties or other guarantees concerning protection by these materials and assumes no liability for use of this material with the chemicals tested.

The user should determine the applicability of conditions when assessing suitability of the actual anticipated exposures.

The breakthrough times and permeation rates reported are the average of three test replicates. ND = no breakthrough in 8 hours; NA = not applicable; NT = not tested. Minimum detection limit (ppm), 1.0 or less (except when that is not possible.)