









Disposable Gloves Chemical Resistance Guide
Breakthrough time in minutes
<15 minutes
>15 but <180 minutes
>180 minutes

Chemical	Nitrile	Neoprene	Latex	Vinyl
Acetaldehyde	<0.6	10.2	7	1
Acetic Acid	5	360	21	45
Acetic Anhydride		210	3	
Acetone	3	2.4	2.4	<1
Acetonitrile (Methyl Cyanide)	<5	<10.8	<0.6	<1
Acrolein	4.2			
Acrylic Acid		70	80	60
Acrylonitrile	<5			
Aldehyde	4			
Allyl Alcohol		94.8		60
Allylamine			<1.2	
Ammonium Fluoride	>360	>360	>360	>360
Ammonium Hydroxide	360	360	90	240
Amyl Acetate (Isoamyl Acetate)	<5	5.4	5.4	<1
Amyl Alcohol	30	321	7.2	12
Amyl Nitrile	175.8	46.8		
Aniline	18	30	25	62
Benzaldehyde	<5	39	10	<1
Benzene	4.2	1.2	0.6	<1
Benzenesulfonic Acid		>1200		
Benzethonium Chloride		>480	>480	
Benzonitrile (Phenyl Cyanide)			<0.6	
Benzoyl Chloride		15		
Bisphthalate	259.8	120	>360	
Boric Acid	>480	>480		
Bromobenzene	13.2			
Bromoethanol			1.2	
Bromopropanol		>480	1.2	
Bromopropionic Acid		180	190	180
Butadiene		46.8	<1.2	
Butanol (Isobutanol)	30	10	1.2	
Butyl Acetate	<5	3.6	1.8	<1
Butyl Acrylate	67.8			
Butylamine	19.8	12	1.2	
Butyl Cellosolve (Butoxyethanol)	9	90	45	
Butyl Chloride (Chlorobutane)	12			
Butyl Nitrite	97.8			
Butyltoluene	>360	73.2		
Butyraldehyde		25.2		
Butyrolactone		10	60	
Carbon Disulfide	1		<5	<1

Carbon Tetrachloride Cellosolve (Ethoxyethanol) Cellosolve Acetate (Ethoxyethyl Acetate) Chloroselve Acetate (Chroyethyl Acetate) Chlorobenzene Chlorobenzene Chlorobutadiene (Chlorophrene) Chlorocethanol (Ethylene Chloroform Chloronitropropane Chlorophranel Chromic Acid Cate Cate Cate Cate Cate Cresol Cresol Cresol Cresol Cresol Cresol Cresol Cresol Cyclohexane Cyclohexanel Cyclohexanel Cyclohexanel Cyclohexanel Cyclohexanel Cyclohexanel Cyclohexanel Cyclohexanel Cyclohexanel Cyclohexale Cyclohexanel Cyclohexale	Chemical	Nitrile	Neoprene	Latex	Vinyl
Cellosolve (Ethoxyethanol)		5	4.8	3.6	25
Cellosolve Acetate (Ethoxyethy)	Cellosolve		45	25	
Acetate) >480 Chlorine >480 Chloroacetonitrile <0.6	Cellosolve Acetate	<5	25	10	
Chloroaceto-nitrile	Acetate)			···	
nitrile C0.6 Chlorobenzene <5			>480		
Chlorobutadiene (Chlorophrene) 3.6 3				<0.6	
(Chlorophrene) 3.6 3 Chloroethanol (Ethylene Chlorohydrin) 298.8	Chlorobenzene	<5	10.8	<5	<5
(Ethylene Chlorohydrin) 298.8 Chloroform 2.4 0.6 0.6 <1		3.6	3		
Chloronaphthalene 174 <5	(Ethylene		298.8		
Chloronitropropane 1.2 Chloropropanol <0.6	Chloroform	2.4	0.6	0.6	<1
Chiloropropanol Chilorotoluene (Benzyl Chloride) Chromic Acid 240 75 70.2		174			<5
Chlorotoluene (Benzyl Chloride) 15 70.2 Chromic Acid 240 75 70.2 Citric Acid >360 >360 >360 Copper >360 >360 >360 Cresote 270 Cresol <5					
(Benzyl Chloride)				<0.6	
Citric Acid >360 >360 >360 Copper >360 >360 >360 Cresote 270 Cresol Cresol 270 Cresol Cresol <5					
Copper >360 >360 Creosote 270 Cresol <5	Chromic Acid	240	75		
Cresol <5	Citric Acid			>360	>360
Cresol <5	Copper				>360
Crotonaldehyde 21 Cyclohexane 360 6 1.8 Cyclohexanol 360 150 10 360 Cyclohexanone <5	Creosote				
Cyclohexane 360 6 1.8 Cyclohexanol 360 150 10 360 Cyclohexanone <5		<5		13.8	
Cyclohexanol 360 150 10 360 Cyclohexanone <5					
Cyclohexanone <5					
Cyclohexylamine 36 1.2 Cyclopentanone 240 1.2 Decanal (Decyl Aldehyde) 300 15 <1			150	10	
Cyclopentanone 240 Decanal (Decyl Aldehyde) 240 Diacetone Alcohol (Hydroxy Methyl Pentanone) 300 15 Diamylamine >480 129 Dibromoethane (Ethylene Dibromide) 27 4.8 <1.2		<5			<1
Decanal (Decyl Aldehyde)			36	1.2	
Diacetone Alcohol (Hydroxy Methyl Pentanone)					
(Hydroxy Methyl Pentanone) 300 15 <1	(Decyl Aldehyde)		240		
Dibromoethane (Ethylene Dibromide) Dibutylamine Dibutyl Phthalate (Butyl Phthalate) Dichlorobenzene Dichlorobutene Dichloroethane (Ethylene Dichloride) Dichloroethylene Dichloroethylene Dichloroethylene Diethylamine Diethylamine Diethylamino- ethanol Diethylenedioxide (Dioxane) Diethylphthalate Diethylphthalate Diethylphthalate Diethylphthalate	(Hydroxy Methyl		300	15	<1
(Ethylene Dibromide) 27 4.8 <1.2	Diamylamine	>480	129		
Dibutyl Phthalate (Butyl Phthalate) Dichlorobenzene Dichlorobutene Dichloroethane (Ethylene Dichloride) Dichloroethylene Diethloroethylene Diethloroethylene Diethylamine Diethylamino- ethanol Diethylenedioxide (Dioxane) Diethylphthalate Diethylphthalate	(Ethylene	27	4.8	<1.2	
(Butyl Phthalate) Dichlorobenzene Signature State State	Dibutylamine	>480			
Dichlorobutene Dichloroethane (Ethylene Dichloride) Dichloroethylene Dichloroethylene Diesel Diethanolamine Diethylamine Diethylamino-ethanol Diethylenedioxide (Dioxane) Diethylenetriamine Diethylphthalate		30	120	16.8	<1
Dichloroethane (Ethylene Dichloride) Dichloroethylene Dichloroethylene Diesel Diethanolamine Diethylamine Diethylamino- ethanol Diethylenedioxide (Dioxane) Diethylphthalate Diethylphthalate	Dichlorobenzene	<5			
(Ethylene Dichloride) 2.4 1.8 0.6 Dichloroethylene 7.2	Dichlorobutene	2.4	10.2		
Dichloroethylene Diesel Diesel Diethanolamine A80 Diethylamine Siethylamino- ethanol Diethylenedioxide (Dioxane) Diethylenetriamine Diethylphthalate	(Ethylene	2.4	1.8	0.6	
Diesel >240 Diethanolamine >480 >480 Diethylamine <5 <5 Diethylamino-ethanol	-	7.2			
Diethanolamine >480 >480 Diethylamine <5 <5 Diethylamino-ethanol >480 Diethylenedioxide (Dioxane) <5 6.4 2.4 Diethylenetriamine >480 Diethylphthalate					
Diethylamino- ethanol >480 Diethylenedioxide (Dioxane) <5 6.4 2.4 Diethylenetriamine >480 Diethylphthalate			>480		
Diethylamino- ethanol Diethylenedioxide (Dioxane) Diethylenetriamine Diethylphthalate	Diethylamine	<5		<5	
(Dioxane) Diethylenetriamine Diethylphthalate	Diethylamino-	>480			
Diethylenetriamine >480 Diethylphthalate		<5	6.4	2.4	
Diethylphthalate	,		>480		
Diisobutyiamine >480 52.2	Diisobutylamine	>480	52.2		
Diisobutyl Ketone 120 15 15	Diisobutyl Ketone	120	15	15	

Chemical	Nitrile	Neoprene	Latex	Vinyl
Diisopropylamine	195	40.2		
Dimethylacetamide	<5		15	<5
Dimethylamine		>480	1.8	
Dimethylamino -propylamine		28.8	0.6	
Dimethylbutylamine	81			
Dimethyl- ethanolamine (Dimethyl- a minoethanol)	>480	235.2	4.8	
Dimethylfo mamide	<5	1.2	25	<1
Dimethylhydrazine	6	37.8	3.6	
Dimethylmercury			0.25	
Dimethylsulfoxide	28.2	60	79.8	<15
Dimethyl- vinylchloride	9			
Dioctylphthalate		>360	<5	<5
Divinylbenzene	60			
Dodecane				
Epichlorohydrin	19.8	15	<1.2	<1
Epoxybutane (Butylene Oxide)		4.2		
Ethanol	24	49.2	12	
Ethanolamine	360	360	210	
Ether (Ethyl Ether Diethyl Ether)	13.8	10	10.2	
Ethidium Bromide				
Ethyl Acetate	<5	12	4.8;	<1
Ethyl Acrylate		48		
Ethylamine	66			
Ethylbenzene	<5			
Ethylbromide		4.2		
Ethylbutylamine		73.2		
Ethyl Cellosolve (Ethoxyethanol)	91.8	244.8	<0.6	
Ethyl Cyanide			<0.6	
Ethylenediamine		399	4.8	
Ethylene Glycol	360	360	360	>360
Ethyleneimine		<4.8		
Ethylglycol Ether		45	25	<15
Ethylhexanoic Acid	>240	>240		
Ethylhexanol		>480		
Ethyl Methacrylate	22.8			
Formaldehyde	>1260	120	6	80
Formic Acid	5	>360	120	360
Freon (Dichlorodifluoro- methane)	10.2	3	2.4	2
Furaldehyde (Furfural)	<5	19.8	15	<5
Gasoline	30		<5	<5
Glutaraldehyde	>240	>480		>360
Heptane	360	45	1.2	
Hexachloro- cyclopentadiene	>480			
He xamethyl- d isil azane		50	15	<15
He xamethyl- phosphoramide	90			

Chemical	Nitrile	Neoprene	Latex	Vinyl
Hexane	78.6	3.6	4.8	<2
Hydraulic Fluid	>240		<5	
Hydrazine	>480	>960	150	>360
Hydrochloric Acid (Muriatic Acid)	360	360	290	300
Hydrofluoric Acid	120	60	90	
Hydrogen Peroxide	>360	4.8	>480	>360
Hydrogen Phosphide		10.2	30	
Hydroquinone	>360	>360	>360	>360
Imino- bispropylamine		>480	6	
Isoprene	52.2	16.2		
Kerosene	>360	>360	<5	360
Lactic Acid	>360	>360	>360	>360
Lauric Acid	>360	>360	>360	15
Limonene		64.8		
Maleic Acid	>360	>360	>360	>360
Methacrylic Acid	10.2			
Methacrylonitrile	7		<1.2	
Metha nesulfonic Acid		>240		
Methanol	10.8	15	1.8	45
Methoxymethyl- pentanone		99		
Methoxypropanol				
Methyl acetate			<1.2	
Methyl Acrylate		15	1.2	
Methylamine	>480	270	25.2	
Methylamino- propylamine		63	3	
Methyl Bromide			<5	
Methyl Butyl Ether	5		<5	<5
Methyl Cellosolve	40.2	25	20	
Methyl Chloride			0.6	
Methylene Dichloride (Methylene Chloride)	1.8	0.6		<0.5
Methylethanolamine		>480		
Methyl Ethyl Ketone	3.6	2.4	1.2	<1
Methyl Ethyl Ketone Peroxide		>240	45	
Methyl Glycol Ether		25	20	
Methylhexanone (Methyl Isoamyl Ketone)	<5			
Methyl Iodide	0.6	0.6	1.8	<1
Methyl Isobutyl Ketone	12	15	6	<5
Methyl Isocyanate		0.6	0.6	
Methyl Methacrylate	<5		<1.2	<1
Methylpyrrolidone	<5		75	
Mineral Oil	>240			150
Mineral Spirits	>360	90	<5	150
Monoethanolamine	360	360	50	>360
Monoethylamine	66			
Morpholine	<5		20	<5
Naphtha	>360	15	<5	120
Nickel		>360		

Chemical	Nitrile	Neoprene	Latex	Vinyl
Nitric Acid	5	79.8	<5	110
Nitrobenzene	<5	40.2	4.8	<5
Nitroethane		49.2	1.8	1
Nitrohydrochloric Acid (Aqua Regia)		45	<5	
Nitromethane	30	60	<1.2	<1
Nitropropane	12	5	1.8	<1
Nonylphenol		>1200	1.0	
Octane (Isoctane)	360	60	<5	
Octanol	360	360	30	
Oleic Acid	>360	60	30	90
Oxalic Acid	360	360	360	>360
Palmitic Acid	30	>360	4.8	75
Pentachlorophenol	>780	6	<5	180
Pentane	1.8	6.6	0.6	<1
Perchloric Acid	360	360	360	>360
Perchloroethylene			<5	<1
Petroleum Ether	>240			
Phenol	31.8	40.2	16.2	75
Phenolphthalein	>480	>480	>480	
Phosphoric Acid	360	360	360	>360
Phosphorus Oxychloride		<0.6		
Picric Acid		150	<5	40
Polychlorinated Biphenyl		1440	4.8	
Potassium Hydroxide	360	180	79.8	>360
Promethazine Hydrochloride	>480			
Propanol (Isopropanol)	30	90	7.2	90
Propanolamine (Monoiso- propanolamine)		>480	30	
Propiolactone			19.8	
Propionaldehyde		12		
Propylacetate	16.8		4.8	<2
Propylamine		13.8		
Propylenediamine (Diaminopropane)		271.9	3	
Propyleneglycol			>360	
Propylene Oxide			<0.6	<1
Propyl Ether (Isopropyl Ether)	>60	42.6	3.6	
Propylmethacrylate	60			
Pyridine	5.4	1.8	2.4	<1
Rubber Solvent		30	<5	<5
Silicon Etch	000	>360	<5	150
Sodium Hydroxide	360	360	360	>360
Sodium Hypochlorite	360	360	360	
Stoddard Solvent	>240	180	<5	57
Styrene Sulfuric Acid	30 5	70.2	10.2 <5	26
(Oleum)				
Tannic Acid	>360	>360	>360	>360
Tetrachloroethane	13.2	5.4	1.8	
Tetrachloro- ethylene	5	6	<1.2	

Chemical	Nitrile	Neoprene	Latex	Vinyl
Tetraethylene- pentamine		>480	106	
Tetrafluoro- ethylene		>480		
Tetrahydrofuran	0.6	1.2	1.2	<0.5
Tetramethylene- diamine	108			
Toluene	<5	1.2	0.6	<0.5
Toluene Diisocyanate	222		7	5
Toluenesulfonic Acid		>480		
Triallylamine	>480	63		
Trichloro- acetonitrile		67.2		
Trichlorobenzene	<5	60	4.8	
Trichloroethane	1.8	2.4	1.2	
Trichloroethylene	<5	1.8	0.6	<1
Trichloropropane	21			
Tricresylphosphate	60	>360	45	>360
Triethanolamine	>480	>360	60	>360
Triethylamine	>480	37.2		
Triethylene Tetramine	>480	>480		
Trifluoroethanol	7.2	>60	>60	
Tripropylamine	>480	>480		
Turpentine	30		<5	<5
Valeronitrile		40.8	1.8	
Vinyl Chloride	342			
Vinylcyclohexane	391.8			
Vinylidenefluoride		<1.2	<1.2	
Xylene	<5	3	1.2	<1

Note: The permeation rates are intended only as a guide. The suitability of all gloves must be determined by the user through their own testing.

This guide should not be considered as a warranty that any glove is fit for purpose.

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