

# Chemical Compatibility Guide for: SHOWA 7005PF Biodegradable Disposable Nitrile Gloves

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# 7005PF

Material **Nitrile** LENGTH 9.5 in. / 240mm

## CHEMICAL PERMEATION

CHEMICAL NAME	CAS NUMBER	BDT	
		TTL ASTM F739	INT ASTM F1383
Formaldehyde 37%	50-00-0	>480	>240
2-Hydroxypropionic acid 85%	50-21-5	>480	>240
Carbon Tet	56-23-5	1-5	1-5
1,2-Propanediol	57-55-6	480	>120
Diethyl Ether	60-29-7	1-5	1-5
Aminobenzene	62-53-3	1-5	1-5
Ethanol	64-17-5	>10	>10
Formic Acid	64-18-6	<1	1-5
Formic Acid 90%	64-18-6	<1	1-5
Acetic Acid 84%	64-19-7	1-5	NT
Acetic Acid 99%	64-19-7	1-5	NT
Acetic Acid 50%	64-19-7	>10	NT
Methanol	67-56-1	1-5	1-5
2-Propanol	67-63-0	>30	>60
2-Propanone	67-64-1	1-5	1-5
Chloroform	67-66-3	1-5	1-5
Dimethylsulfoxide (DMSO)	67-68-5	6-10	6-10
Dimethyl Formamide	68-12-2	1-5	1-5
n-Propanol	71-23-8	>10	>10
Butanol	71-36-3	>30	>30
Alcohol, Amyl	71-41-0	>10	>10
Benzene	71-43-2	1-5	1-5
1,1,1-Trichloroethane	71-55-6	1-5	1-5
Iodide, Methyl	74-88-4	1-5	1-5
ETHYLAMINE 70%	75-04-7	1-5	1-5
Acetonitrile	75-05-8	1-5	1-5

Acetaldehyde	75-07-0	1-5	1-5
Chloride, Methylene	75-09-2	1-5	1-5
Bromoform	75-25-2	1-5	1-5
1,1-Dichloroethene	75-35-4	1-5	1-5
Acetyl Chloride	75-36-5	1-5	NT
Nitromethane	75-52-5	1-5	1-5
1,2-Epoxypropane	75-56-9	<1	1-5
Tetramethylammonium Hydroxide 25%	75-59-2	>120	>240
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	1-5	1-5
Dimethyl Sulfate	77-78-1	1-5	1-5
Citric Acid 30%	77-92-9	>480	>240
2-Butanol	78-83-1	>30	>60
Dichloropropane, 1,2-	78-87-5	1-5	1-5
2-Butanone	78-93-3	1-5	1-5
Ethylene, Trichloride	79-01-6	1-5	1-5
2-Propeneamide(s) 99%	79-06-1	>120	>240
2-Propeneamide 50%	79-06-1	>120	>240
Acetate, Methyl	79-20-9	1-5	NT
PERACETIC ACID 39%	79-21-0	1-5	NT
Nitro Propane	79-46-9	1-5	1-5
Methacrylate, Methyl	80-62-6	1-5	1-5
DBP	84-74-2	>30	>30
Vinyl Pyrrolidinone	88-12-0	1-5	1-5
Biphenyl 27%	92-52-4	<1	<1
Dichlorobenzene O-	95-50-1	1-5	1-5
2-Aminotoluene	95-53-4	1-5	1-5
1,2,4 - Trimethyl Benzene 98%	95-63-6	1-5	>10
Pseudocumene	95-63-6	1-5	1-5
Butanone Oxime	96-29-7	>30	>30
2-Ethylbutyl alcohol	97-95-0	1-5	1-5
2-Furaldehyde	98-01-1	1-5	1-5
Butyl Toluene, p-Tert	98-51-1	6-10	>10
(1-Methylethyl)benzene	98-82-8	1-5	1-5
Cyclohexyldimethylamine	98-94-2	1-5	>10
Nitrobenzene	98-95-3	1-5	1-5
Benzene, Ethyl	100-41-4	1-5	1-5
Benzene, Vinyl	100-42-5	1-5	1-5

Alcohol, Benzyl	100-51-6	1-5	1-5
Benzaldehyde	100-52-7	1-5	1-5
4,4-Methylenedianiline	101-77-9	1-5	>10
Oxybisbenzene,1,1- (Dowtherm) 73%	101-84-8	<1	<1
2,2',2''-Nitrilotriethanol	102-71-6	6-10	>10
Methyl Isobutyl Ketoxime	105-44-2	>480	>240
Dimethylpiperazine	106-58-1	6-10	>10
1,2-Dichloroethane	107-06-2	1-5	1-5
Acrylonitrile	107-13-1	1-5	1-5
1,2-Diaminoethane 99%	107-15-3	<1	1-5
2-Propen-1-ol	107-18-6	1-5	1-5
1,2-Ethanediol	107-21-1	>480	>240
Methyl Propyl Ketone	107-87-9	1-5	1-5
1-methoxy-2-propanol	107-98-2	6-10	>10
Acetate, Vinyl	108-05-4	1-5	1-5
2-Pentanone, Methyl-	108-10-1	<1	1-5
Acetate, Isopropyl	108-21-4	1-5	1-5
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6	1-5	1-5
2,6-Dimethyl-4-Heptanone	108-83-8	6-10	>10
Benzene, Methyl	108-88-3	1-5	1-5
Benzene Chloride	108-90-7	1-5	1-5
Cyclohexanol	108-93-0	>30	>120
Cyclohexanone	108-94-1	1-5	1-5
Carbolic Acid(s) 100%	108-95-2	6-10	6-10
Carbolic Acid 89%	108-95-2	1-5	1-5
Carbolic Acid 10%	108-95-2	1-5	1-5
Dimethyl Propaneamide, N,N'-	109-55-7	1-5	1-5
Acetate, Propyl	109-60-4	1-5	1-5
Pentane	109-66-0	>30	>120
1-Aminobutane	109-73-9	1-5	1-5
DEA	109-89-7	1-5	1-5
Diethylene Oxide	109-99-9	1-5	1-5
Hexane	110-54-3	>60	>120
2-Ethoxyethanol	110-80-5	<1	1-5
Cyclohexane	110-82-7	>60	>120
PYRIDINE	110-86-1	1-5	1-5
Diethylene oximide	110-91-8	1-5	1-5

1,5-Pentanedial 50%	111-30-8	>30	>60
2,2-iminodiethanol	111-42-2	>10	>10
Diethylene Glycol	111-46-6	>120	>240
2-Butoxyethanol	111-76-2	>10	>10
n-Octanol	111-87-5	>10	>10
Ethylene Glycol Monoethyl Ether	112-25-4	>10	>60
Oleic Acid 98%	112-80-1	>480	>240
1,2,4-Trichlorobenzene	120-82-1	1-5	1-5
2,4-Dinitrotoluene 40%	121-14-2	1-5	1-5
TRIETHYLAMINE	121-44-8	6-10	>10
4-Hydroxy-4-methyl-2-pentanone	123-42-2	1-5	1-5
3-Methyl-1-butanol	123-51-3	>30	>30
Butyl Acetate	123-86-4	1-5	1-5
1,4-Dioxane	123-91-1	1-5	1-5
3-Methylbutyl Ethanoate	123-92-2	1-5	1-5
PERC	127-18-4	1-5	1-5
Dimethylacetamide N,N-	127-19-5	1-5	1-5
Butyl Acrylate	141-32-2	1-5	1-5
2-Aminoethanol	141-43-5	1-5	1-5
Ethyl Acetate	141-78-6	1-5	1-5
Heptane	142-82-5	>120	>120
Butoxytriethylglycol	143-22-6	1-5	6-10
OXALIC ACID (s) 99%	144-62-7	480	NT
NINHYDRIN	485-47-2	>480	>240
Trimethyl Phosphate	512-56-1	1-5	NT
2,2,4-Trimethyl Pentane	540-84-1	>60	>120
3-Methyl-2-Butanone	563-80-4	1-5	1-5
Butyl Ethylene	592-41-6	6-10	>10
Amyl Acetate	628-63-7	1-5	1-5
Methyl Pyrrolidone, N-	872-50-4	1-5	1-5
2-Bromoethyl Acetate	927-68-4	1-5	1-5
Hexamethyldisilazane	999-97-3	480	>120
Glyphosate Roundup 95%	1071-83-6	>480	>240
3,8-Diamino-5-ethyl-6-phenylphenanthridinium bromide 5%	1239-45-8	>480	>240
Caustic Potash 45%	1310-58-3	480	NT
Caustic Soda 40%	1310-73-2	480	NT
Caustic Soda 50%	1310-73-2	480	NT

Cresols	1319-77-3	1-5	1-5
Divinyl Benzene	1321-74-0	1-5	1-5
dimethyl benzene	1330-20-7	1-5	1-5
Chromic Acid Solution 50%	1333-82-0	1-5	NT
Ammonia Solution 29%	1336-21-6	1-5	NT
Methyl-Tert-Butyl Ether	1634-04-4	1-5	6-10
Dibutyl phenyl phosphate	2528-36-1	>10	>60
2-Propoxyethanol	2807-30-9	6-10	6-10
Butoxypropanol	5131-66-8	6-10	>10
D-Limonene	5989-27-5	1-5	1-5
2,2'-dimorpholinodiethylether	6425-39-4	1-5	>10
Hydrochloric Acid 37%	7647-01-0	>60	NT
Hydrochloric Acid 10%	7647-01-0	>480	NT
Phosphoric Acid 85%	7664-38-2	480	NT
Hydrofluoric Acid 48%	7664-39-3	1-5	NT
Sulfuric Acid 96%	7664-93-9	6-10	NT
Battery Acid 47%	7664-93-9	480	NT
Sulfuric Acid 70%	7664-93-9	>60	NT
Sulfuric Acid 10%	7664-93-9	480	NT
Sulfuric Acid 25%	7664-93-9	480	NT
Sulfuric Acid 50%	7664-93-9	480	NT
Bleach: Sodium Hypochlorite 6%	7681-52-9	>480	>240
Nitric Acid 65%	7697-37-2	1-5	NT
Nitric Acid 70%	7697-37-2	1-5	NT
Nitric Acid 50%	7697-37-2	1-5	NT
Nitric Acid 10%	7697-37-2	480	NT
Nitric Acid 23%	7697-37-2	>120	NT
Hydrogen Peroxide 30%	7722-84-1	>10	NT
Hydroxylamine 50%	7803-49-8	>480	>240
Gasoline (unleaded)	8006-61-9	1-5	1-5
Fir Oil	8006-64-2	>30	>120
Kerosene	8008-20-6	6-10	>10
Ligroin	8032-32-4	6-10	>30
Dry Cleaning Mineral Spirits	8052-41-3	>60	>120
Tetrachloropropene	10436-39-2	1-5	1-5
Ammonium Fluoride 40%	12125-01-8	>480	>240
2-Chloro-2-Oxoethyl Acetate	13831-31-7	1-5	1-5

Fluoboric Acid 49%	16872-11-0	6-10	>30
Antimony Tributyratate 95%	53856-17-0	>120	>240
Dry cleaning safety solvent	64475-85-0	>480	>240
Kerosene (hydrosulfurized)	64742-81-0	480	>120
Diesel Oil	68334-30-5	480	>120
Diesel Fuel	77650-28-3	>480	>240

**BDT=BREAKTHROUGH DETECTION TIME**

THE LEVEL (0 TO 6) INDICATES THE TIME REQUIRED FOR DIFFERENT CHEMICALS TO PERMEATE THROUGH THE GLOVE.  
 TTL : TOTAL IMMERSION CHEMICAL PERMEATION BREAKTHROUGH TIME.  
 INT : INTERMITTENT CONTACT CHEMICAL PERMEATION BREAKTHROUGH TIME, ONE MINUTE IMMERSION OUT OF EVERY TEN, REPEATEDLY.

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