

# Chemical Compatibility Guide for: SHOWA 7502PF Biodegradable Disposable Nitrile Gloves

The guide on the following page(s) was provided by the supplier.  
New Pig Corporation assumes no responsibility, obligation, or  
liability in conjunction with the use or misuse of the information.



**New Pig**

One Pork Avenue  
Tipton, PA 16684-0304

**newpig.com**

North America: **1-800-468-4647**

Europe: **+31 (0)76 596 92 50**

China: **+86-21-400 921 5178**

PIG, PIG logo are registered trademarks in USA and other countries. See [tm.newpig.com](http://tm.newpig.com)

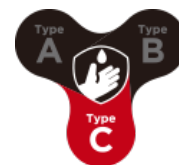
UK: **0800 919 900**

Outside North America: **+1-814-684-0101**



# 7502PF

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



## CHEMICAL PERMEATION

| CHEMICAL NAME            | CAS NUMBER | BDT              |                   |
|--------------------------|------------|------------------|-------------------|
|                          |            | TTL<br>ASTM F739 | INT<br>ASTM F1383 |
| Formaldehyde 37%         | 50-00-0    | 6-10             | 6-10              |
| Carbon Tet               | 56-23-5    | 1-5              | 1-5               |
| Urea (s) 99%             | 57-13-6    | >480             | >240              |
| 1,2-Propanediol          | 57-55-6    | >120             | >240              |
| Diethyl Ether            | 60-29-7    | 1-5              | 1-5               |
| Aminobenzene             | 62-53-3    | 1-5              | 1-5               |
| Ethanol                  | 64-17-5    | 1-5              | 1-5               |
| Formic Acid 90%          | 64-18-6    | NT               | <1                |
| Acetic Acid 10%          | 64-19-7    | >240             | >240              |
| Acetic Acid 84%          | 64-19-7    | 1-5              | NT                |
| Acetic Acid 50%          | 64-19-7    | >10              | NT                |
| Acetic Acid 25%          | 64-19-7    | >60              | NT                |
| Acetic Acid 99%          | 64-19-7    | <1               | <1                |
| Benzoic Acid (s) 99%     | 65-85-0    | >480             | >240              |
| Methanol                 | 67-56-1    | 1-5              | 1-5               |
| 2-Propanol               | 67-63-0    | >10              | >10               |
| 2-Propanone              | 67-64-1    | 1-5              | 1-5               |
| Chloroform               | 67-66-3    | 1-5              | 1-5               |
| Dimethylsulfoxide (DMSO) | 67-68-5    | 1-5              | 1-5               |
| Dimethyl Formamide       | 68-12-2    | 1-5              | 1-5               |
| Salicylic acid (s) 99%   | 69-72-7    | >480             | >240              |
| n-Propanol               | 71-23-8    | 1-5              | 1-5               |
| Butanol                  | 71-36-3    | >10              | NT                |
| Alcohol, Amyl            | 71-41-0    | 6-10             | 6-10              |
| Benzene                  | 71-43-2    | 1-5              | 1-5               |
| 1,1,1-Trichloroethane    | 71-55-6    | 1-5              | 1-5               |

|                                       |         |      |      |
|---------------------------------------|---------|------|------|
| Chloride, Methyl (GAS)                | 74-87-3 | NT   | <1   |
| Iodide, Methyl                        | 74-88-4 | 1-5  | 1-5  |
| Methylamine 40%                       | 74-89-5 | NT   | <1   |
| 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  |
| Carbon Disulfide                      | 75-15-0 | NT   | <1   |
| 1,2-Epoxy Ethane (gas)                | 75-21-8 | NT   | <1   |
| 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  | 1-5  |
| Nitromethane                          | 75-52-5 | 1-5  | 1-5  |
| 1,2-Epoxypropane                      | 75-56-9 | 1-5  | 1-5  |
| Tetramethylammonium Hydroxide 25%     | 75-59-2 | >30  | NT   |
| 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 99%                       | 77-92-9 | >480 | >240 |
| Citric Acid 30%                       | 77-92-9 | >480 | >240 |
| Citric Acid 50%                       | 77-92-9 | >480 | >240 |
| Citric Acid 75%                       | 77-92-9 | >480 | >240 |
| 2-Butanol                             | 78-83-1 | >10  | >10  |
| 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-Propenamide 50%                     | 79-06-1 | >240 | >120 |
| 2-Propenamide 98%                     | 79-06-1 | >480 | >240 |
| 2-Propenoic Acid                      | 79-10-7 | 1-5  | 1-5  |
| Acetate, Methyl                       | 79-20-9 | 1-5  | 1-5  |
| PERACETIC ACID 39%                    | 79-21-0 | <1   | <1   |
| Methacrylic Acid 99%                  | 79-41-4 | NT   | <1   |
| Nitro Propane                         | 79-46-9 | 1-5  | 1-5  |
| Methacrylate, Methyl                  | 80-62-6 | 1-5  | 1-5  |
| DBP                                   | 84-74-2 | >10  | >10  |
| Vinyl Pyrrolidone                     | 88-12-0 | 1-5  | 1-5  |
| Dichlorobenzene O-                    | 95-50-1 | 1-5  | 1-5  |
| 2-Aminotoluene                        | 95-53-4 | 1-5  | 1-5  |

|   |          |      |      |
|---|----------|------|------|
| Pseudocumene                              | 95-63-6  | <1   | <1   |
| Butanone Oxime                            | 96-29-7  | >10  | >10  |
| 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  | 1-5  | 6-10 |
| (1-Methylethyl)benzene                    | 98-82-8  | 1-5  | 1-5  |
| 1-Phenylethanone                          | 98-86-2  | NT   | <1   |
| 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  |
| 2,2',2''-Nitrilotriethanol                | 102-71-6 | 1-5  | 6-10 |
| ±)-2-(Chloromethyl)oxiran                 | 106-89-8 | NT   | <1   |
| 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   |
| 2-Propen-1-ol                             | 107-18-6 | 1-5  | 1-5  |
| Methyl Propyl Ketone                      | 107-87-9 | 1-5  | 1-5  |
| 1-methoxy-2-propanol                      | 107-98-2 | 1-5  | 1-5  |
| Acetate, Vinyl                            | 108-05-4 | 1-5  | 1-5  |
| 2-Pentanone, Methyl-                      | 108-10-1 | 1-5  | 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 | 1-5  | 1-5  |
| Benzene, Methyl                           | 108-88-3 | 1-5  | 1-5  |
| Benzene Chloride                          | 108-90-7 | 1-5  | 1-5  |
| Cyclohexanol                              | 108-93-0 | >10  | >30  |
| Cyclohexanone                             | 108-94-1 | 1-5  | 1-5  |
| Carbolic Acid 89%                         | 108-95-2 | 1-5  | 1-5  |
| Carbolic Acid(s) 100%                     | 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   |
| Acetate, Propyl                           | 109-60-4 | NT   | <1   |
| Pentane                                   | 109-66-0 | 6-10 | >10  |
| 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 | >10  | >30  |
| Cyclohexane                    | 110-82-7 | >10  | >30  |
| PYRIDINE                       | 110-86-1 | 1-5  | 1-5  |
| Diethylene oximide             | 110-91-8 | 1-5  | 1-5  |
| 1,5-Pentanedial 50%            | 111-30-8 | 6-10 | >10  |
| 2,2-iminodiethanol             | 111-42-2 | 6-10 | NT   |
| n-Octane                       | 111-65-9 | >10  | NT   |
| 2-Butoxyethanol                | 111-76-2 | 1-5  | 1-5  |
| n-Octanol                      | 111-87-5 | >10  | >10  |
| Methyltriglycol                | 112-35-6 | NT   | <1   |
| Ethoxytriglycol                | 112-50-5 | 1-5  | 1-5  |
| Oleic Acid                     | 112-80-1 | >120 | >240 |
| 1,2,4-Trichlorobenzene         | 120-82-1 | 1-5  | 1-5  |
| TRIETHYLAMINE                  | 121-44-8 | 1-5  | 6-10 |
| 4-Hydroxy-4-methyl-2-pentanone | 123-42-2 | 1-5  | 1-5  |
| 3-Methyl-1-butanol             | 123-51-3 | 1-5  | 1-5  |
| 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 | >10  | >30  |
| Butoxytriglycol                | 143-22-6 | 1-5  | 1-5  |
| OXALIC ACID (s) 99%            | 144-62-7 | >480 | >240 |
| Calcium Carbonate (s) 99%      | 471-34-1 | >480 | >240 |
| NINHYDRIN                      | 485-47-2 | >480 | >240 |
| Trimethyl Phosphate            | 512-56-1 | <1   | NT   |
| 2,2,4-Trimethyl Pentane        | 540-84-1 | >30  | >60  |
| 3-Methyl-2-Butanone            | 563-80-4 | 1-5  | 1-5  |
| Butyl Ethylene                 | 592-41-6 | 1-5  | 1-5  |
| 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  | >120 | NT   |
| 3,8-Diamino-5-ethyl-6-phenylphenanthridinium bromide 5%  | 1239-45-8 | >480 | >240 |
| 3,8-Diamino-5-ethyl-6-phenylphenanthridinium bromide 1%  | 1239-45-8 | >480 | >240 |
| 3,8-Diamino-5-ethyl-6-phenylphenanthridinium bromide 10% | 1239-45-8 | >480 | >240 |
| 3,8-Diamino-5-ethyl-6-phenylphenanthridinium bromide 95% | 1239-45-8 | >480 | >240 |
| Calcium Hydroxide (s) 95%                                | 1305-62-0 | >480 | >240 |
| Caustic Potash 30%                                       | 1310-58-3 | >480 | >240 |
| Caustic Potash 45%                                       | 1310-58-3 | >480 | NT   |
| Caustic Potash 99%                                       | 1310-58-3 | >480 | >240 |
| Caustic Potash 20%                                       | 1310-58-3 | >480 | >240 |
| Caustic Potash 10%                                       | 1310-58-3 | >480 | >240 |
| Caustic Soda 10%   | 1310-73-2 | >480 | >240 |
| Caustic Soda 30%   | 1310-73-2 | >480 | >240 |
| Caustic Soda 98%   | 1310-73-2 | >480 | >240 |
| Caustic Soda 20%   | 1310-73-2 | >480 | >240 |
| Caustic Soda 40%   | 1310-73-2 | NT   | >240 |
| Caustic Soda 50%   | 1310-73-2 | NT   | >240 |
| 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  |
| Tricresyl Phosphate                                      | 1330-78-5 | >10  | >10  |
| Chromic Acid Solution 99%                                | 1333-82-0 | >480 | >240 |
| Chromic Acid Solution 50%                                | 1333-82-0 | NT   | <1   |
| Ammonia Solution 10%                                     | 1336-21-6 | 6-10 | NT   |
| Ammonia Solution 29%                                     | 1336-21-6 | 1-5  | NT   |
| Ammonia Solution 25%                                     | 1336-21-6 | 1-5  | NT   |
| Ammonia Solution 32%                                     | 1336-21-6 | 1-5  | NT   |
| Gallotannin 95%  | 1401-55-4 | >480 | >240 |
| 1-Propoxy-2-propanol                                     | 1569-01-3 | 1-5  | 1-5  |
| Methyl-Tert-Butyl Ether                                  | 1634-04-4 | 1-5  | 1-5  |
| Butoxypropanol   | 5131-66-8 | 1-5  | 1-5  |
| D-Limonene   | 5989-27-5 | 1-5  | 1-5  |
| Potassium Chloride (s) 99%                               | 7447-40-7 | >480 | >240 |
| Hydrochloric Acid 10%                                    | 7647-01-0 | NT   | >240 |
| Muriatic Acid 32%  | 7647-01-0 | >240 | >240 |
| Muriatic Acid 20%  | 7647-01-0 | >480 | >240 |
| Hydrochloric Acid 37%                                    | 7647-01-0 | >60  | NT   |

|                                 |            |      |      |
|---------------------------------|------------|------|------|
| Sodium Chloride (s) 99%         | 7647-14-5  | >480 | >240 |
| Phosphoric Acid 10%             | 7664-38-2  | >480 | >240 |
| Phosphoric Acid 50%             | 7664-38-2  | >480 | >240 |
| Phosphoric Acid 85%             | 7664-38-2  | >480 | NT   |
| Hydrofluoric Acid 40%           | 7664-39-3  | 1-5  | NT   |
| Hydrofluoric Acid 48%           | 7664-39-3  | 1-5  | NT   |
| Hydrofluoric Acid 30%           | 7664-39-3  | 1-5  | NT   |
| Hydrofluoric Acid 99%           | 7664-39-3  | NT   | <1   |
| Ammonia (Gas)                   | 7664-41-7  | NT   | <1   |
| Battery Acid 93%                | 7664-93-9  | 1-5  | NT   |
| Battery Acid 25%                | 7664-93-9  | >480 | NT   |
| Battery Acid 10%                | 7664-93-9  | >480 | NT   |
| Battery Acid 96%                | 7664-93-9  | 1-5  | NT   |
| Battery Acid 47%                | 7664-93-9  | >480 | NT   |
| Battery Acid 70%                | 7664-93-9  | >10  | NT   |
| Battery Acid 50%                | 7664-93-9  | >480 | >240 |
| Bleach: Sodium Hypochlorite 12% | 7681-52-9  | >480 | >240 |
| Bleach: Sodium Hypochlorite 6%  | 7681-52-9  | >480 | >240 |
| Nitric Acid 70%                 | 7697-37-2  | 1-5  | 1-5  |
| Nitric Acid 35%                 | 7697-37-2  | >30  | NT   |
| Nitric Acid 10%                 | 7697-37-2  | NT   | >240 |
| Nitric Acid 23%                 | 7697-37-2  | >120 | NT   |
| Nitric Acid 65%                 | 7697-37-2  | 1-5  | NT   |
| Nitric Acid 50%                 | 7697-37-2  | 1-5  | NT   |
| Hydrogen Peroxide 30%           | 7722-84-1  | >10  | NT   |
| Bromine                         | 7726-95-6  | NT   | <1   |
| Iron Chloride Solution 98%      | 7758-94-3  | >480 | >240 |
| Iron Chloride Solution 45%      | 7758-94-3  | >480 | >240 |
| Chlorine (Gas)                  | 7782-50-5  | NT   | <1   |
| Iron Sulfate (s) 99%            | 7782-63-0  | >480 | >240 |
| Gasoline (unleaded)             | 8006-61-9  | 1-5  | 1-5  |
| Fir Oil                         | 8006-64-2  | >10  | >30  |
| Kerosene                        | 8008-20-6  | >480 | >240 |
| Oleum (20% Free SO3)            | 8014-95-7  | NT   | <1   |
| Ligroin                         | 8032-32-4  | 1-5  | 1-5  |
| Dry Cleaning Mineral Spirits    | 8052-41-3  | >30  | >60  |
| Hydrobromic Acid 48%            | 10035-10-6 | >480 | >240 |

|   |            |      |      |
|---|------------|------|------|
| Boric acid (s) 99%                          | 10043-35-3 | >480 | >240 |
| Calcium Chloride (s) 96%                    | 10043-52-4 | >480 | >240 |
| Tetrachloropropene                          | 10436-39-2 | <1   | <1   |
| 2-Chloro-2-Oxoethyl Acetate                 | 13831-31-7 | 1-5  | 1-5  |
| Talc (s) 99%                                | 14807-96-6 | >480 | >240 |
| Pentachloropropane                          | 23153-23-3 | NT   | <1   |
| Antimony Tributyrate 95%                    | 53856-17-0 | >480 | >240 |
| Dry cleaning safety solvent                 | 64475-85-0 | >480 | >240 |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | >480 | >240 |
| Naphtha, VM & P                             | 64742-49-0 | 1-5  | 1-5  |
| Kerosene (hydrosulfurized)                  | 64742-81-0 | >480 | >240 |
| Mineral Spirits (White Spirits Type 0)      | 64742-88-7 | >480 | >240 |
| Naphtha, heavy aromatic                     | 64742-94-5 | NT   | <1   |
| Naphtha, light aromatic                     | 64742-95-6 | <1   | <1   |
| Kerosene (Fuel Oil # 2)                     | 68476-30-2 | >480 | >240 |
| PETROLEUM ETHER                             | 68476-50-6 | 1-5  | 1-5  |
| Mineral Spirits (odorless)                  | 68551-17-7 | >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.

#### Warranty Limitations and Disclaimer Use

This information is provided solely as a convenience to help you evaluate our gloves in the end-user's particular application. It is the responsibility of the purchaser and/or user to determine the level of toxicity of the materials to be handled and to select the proper glove suitable for a particular application. The information provided reflects laboratory performance of gloves under carefully controlled conditions. SHOWA makes no guarantee of results and assumes no obligation or liability in connection with this information.