



TPU BELTS

THERMOPLASTIC POLYURETHANE

**CHEMICAL
RESISTANCE TABLES**





CHEMICAL NAME	POLYURETHANE	BUTYL RUBBER	NATURAL RUBBER	CLOROPRENE (NEOPRENE)	NITRILE (BUNA N)	SILICONE	FLUORO-CARBON A (VITON)	CHLOROSULFONATED POLYETHYLENE (HYPALON)
A								
Acetic Acid, 30%	4	2	2	1	2	1	3	1
Acetic Acid, Hot	4	4	4	2	ND	4	ND	ND
Acetone	4	1	3	4	4	3	4	2
Acetyl Chloride	4	4	4	4	4	3	1	4
Acrylic Acid	ND	ND	ND	ND	2	ND	4	ND
Alkyl Acetone	4	1	1	1	3	2	1	ND
Alkyl Alcohol	1	4	4	4	1	2	4	ND
Alkyl Benzene	4	ND	ND	4	4	4	2	ND
Alkyl Chloride	3	4	4	4	2	ND	2	ND
Aluminum Acetate	4	2	1	2	4	4	4	1
Aluminum Ammonium Sulphate	ND	ND	2	2	2	ND	1	ND
Aluminum Chloride	2	1	1	2	1	2	1	1
Aluminum Nitrate	3	1	1	2	1	2	1	1
Ammonia, Anhydrous	4	1	4	1	2	2	4	2
Ammonia Gas, Cold	2	1	1	1	1	1	4	1
Ammonia Gas, Hot	4	4	3	4	2	1	4	2
Ammonium Chloride	2	1	1	2	2	3	1	1
Ammonium Hydroxide	4	1	3	3	4	1	3	1
Amyl Acetate	4	2	ND	4	4	4	4	4
Animal Fats (Lards)	3	3	ND	3	1	2	1	3
Animal Fats (Oils)	3	2	4	2	1	ND	1	ND
Antifreeze Solutions	4	3	1	3	1	3	2	2
Antimony Pentachloride	4	4	4	4	2	4	1	4
Apple Acid	ND	4	1	2	1	2	1	2
Argon	1	2	ND	4	1	2	1	4
Aromatic Alcohol	ND	ND	3	3	3	ND	1	ND
Aromatic Fuels	4	4	4	4	2	4	1	4
Aromatic Hydrocarbons	3	4	4	4	4	3	1	ND
Aromatic Spirits	ND	4	4	ND	3	ND	1	ND
Aromatic Vinegar	2	1	1	2	3	1	1	ND
Arsenic Chloride	ND	4	4	1	3	ND	4	ND
Ascorbic Acid	ND	ND	ND	ND	ND	ND	1	ND
Automotive Brake Fluid	4	2	2	2	3	3	4	2
B								
Baking Soda	1	1	1	1	1	1	1	ND
Barium Flouride	1	3	4	2	1	4	3	3
Barium Nitrate	2	2	4	1	1	2	1	2
Benzene	4	4	4	4	4	4	2	4
Benzilic Acid	ND	ND	ND	ND	ND	ND	ND	ND
Benzol	4	4	4	4	4	4	2	4
Bleach Solutions	4	2	4	4	4	2	ND	1
Blood	2	ND	ND	1	3	2	2	ND
Borax	1	1	ND	ND	2	2	1	1
Boric Acid	1	1	1	2	1	1	1	1
Butadiene	4	4	4	4	4	4	3	3
Butanol (Butyl Alcohol)	ND	2	1	2	1	2	ND	1
Butter Animal Fat	3	3	4	3	1	2	ND	2

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Butyl Acetate	4	2	4	4	4	4	4	ND
Butyric Acid	4	2	4	4	4	4	3	3
C								
Calcium Carbonate	4	1	1	1	1	4	1	1
Calcium Nitrate	1	1	1	1	1	2	1	1
Calcium Phosphate	1	1	1	2	1	1	1	1
Calcium Sulfate	2	1	3	4	1	ND	2	1
Camphor	ND	ND	ND	ND	1	ND	2	ND
Cane Sugar Liquors	4	1	1	2	1	1	1	ND
Carbon Fluorides	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Monoxide	1	1	3	4	1	1	1	1
Carbonated Beverages	2	ND	ND	1	1	3	1	ND
Carbonic Acid	1	1	1	4	2	1	1	1
Castor Oil	1	2	1	1	1	1	1	1
Catsup	4	ND	1	2	1	ND	1	ND
Caustic Lime	ND	1	1	2	1	1	1	1
Cement, Portland	ND	ND	ND	ND	1	ND	1	ND
Chloric Acid	ND	ND	ND	ND	ND	ND	ND	ND
Chlorine (Wet)	4	ND	ND	4	ND	4	1	ND
Chlorine Water	4	4	4	4	3	4	1	ND
Chloroethane	3	ND	ND	4	1	ND	1	ND
Chloroform	4	4	4	4	4	4	2	4
Cholesterol	ND	ND	ND	ND	ND	ND	ND	ND
Chromic Acid	4	3	4	4	4	3	1	ND
Citric Acid	1	1	1	1	1	1	1	1
Chlorine (Dry)	4	ND	ND	4	ND	4	1	ND
Clorox	ND	ND	ND	ND	2	2	1	ND
Coconut Oil	3	2	4	4	1	1	1	3
Copper Sulfate	4	1	2	2	1	1	1	1
Cottonseed Oil	1	3	4	3	1	1	1	2
Creosote (Coal Tar)	3	4	4	2	1	4	1	4
D								
Degreasing Fluid	1	3	4	ND	4	ND	ND	4
Developing Fluids	ND	2	1	2	1	2	1	1
Dichloroethane	3	4	4	4	2	ND	1	ND
Dichloroethylene	3	3	4	4	4	ND	1	4
Diesel Oil	3	4	4	4	1	4	1	3
Dimethyl Acetamide	ND	ND	ND	ND	ND	ND	4	ND
Dimethyl Formamide (DMF)	4	2	4	4	3	3	4	4
Dry Cleaning Fluids	4	4	4	4	3	4	1	4
DTE Light Oil	2	4	4	2	1	3	1	4
E								
Epoxy Resins	ND	1	ND	1	ND	ND	4	ND
Ethanol	ND	1	1	2	1	2	ND	1
Ethyl Butyl Ketone	ND	2	4	ND	4	ND	ND	ND
Ethyl Hexyl Alcohol	4	1	1	1	1	2	1	1
Ethylene Alcohol	2	1	1	1	1	1	1	1
Ethylene Chloride	4	4	4	4	4	4	2	4

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F								
Ferric Sulfate	2	1	1	2	1	3	1	1
Fertilizer Salts, Aqueous	ND	ND	ND	1	1	ND	1	ND
Fish Oil	2	4	4	2	1	1	1	ND
Flourine	4	4	4	4	4	4	2	ND
Flourine, Gas	4	4	4	4	4	4	1	4
Flourine, Liquid	4	ND	ND	ND	4	ND	2	ND
Freon 11	ND	4	4	4	2	4	2	1
Freon 112	ND	4	4	2	2	4	2	2
Freon 13	2	1	ND	1	1	4	1	1
G								
Gallic Acid	3	2	1	2	2	ND	1	2
Gasoline Premium Unleaded	4	4	4	3	2	4	1	3
Gelatin	2	1	1	2	1	1	1	1
Glue	1	1	2	1	1	1	1	1
Glycerol (Glycerin)	4	1	1	1	1	1	1	1
Glycol Ethyl Ether	ND	1	4	4	2	ND	4	ND
Glycols	ND	1	1	2	1	1	1	1
Grain Alcohol	4	1	1	1	1	1	2	1
H								
Honey	3	ND	ND	1	1	ND	1	ND
Hydrofluoric Acid (Anhydrous)	ND	ND	ND	ND	4	4	1	ND
Hydrogen	2	1	2	1	1	3	1	1
Hydrogen Peroxide	ND	ND	4	4	4	3	ND	2
I								
Iodine	4	2	4	4	2	3	1	2
Isobutyl Alcohol	4	1	1	1	2	1	1	1
Isopropanol	4	1	1	3	1	1	ND	1
L								
Lactic Acid, Cold	4	1	1	1	1	1	1	1
Lard (Animal Fat)	1	3	4	2	1	2	1	4
Lubricating Oils, Diester	4	4	4	3	2	4	2	4
Lubricating Oils, Petroleum	2	4	4	2	1	4	1	2
M								
Magnesium Acetate	4	1	4	4	4	4	4	1
Magnesium Salts	1	1	1	1	1	1	1	1
Maleic Acid	ND	2	4	4	3	4	1	4
Mercuric Sulfate	ND	2	2	2	1	2	2	2
Mercury	1	1	1	1	1	1	1	1
Methane	3	4	3	2	1	4	1	2
Methanol (Methyl Alcohol)	4	1	1	4	1	1	4	1
Methyl Butyl Ketone	4	1	4	4	4	4	4	4
Methyl Chloride	4	4	4	4	4	4	2	4
Methyl Ethyl Ketone (MEK)	4	1	4	4	4	4	4	4
N								
Nicotine	2	ND	ND	3	ND	ND	2	ND
Nitrogen	1	1	1	2	1	1	1	1
Nitrous Acid	ND	ND	3	ND	4	ND	ND	ND

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Nitrous Oxide	2	1	1	ND	1	1	3	1
O								
Olefins	ND	ND	ND	ND	ND	ND	1	ND
Oleic Acid	2	4	4	4	1	4	2	2
Ozone	1	2	4	4	4	1	1	1
P								
Peanut Oil	2	3	4	4	1	1	1	2
Pectin (Liquor)	1	ND	ND	3	1	1	ND	ND
Phosphoric Acid (20%)	3	2	2	3	4	3	1	1
Pine Oil	1	4	4	4	2	4	1	4
Polyethylene Glycol	ND	1	1	2	1	ND	1	1
Potassium Acid Sulfate	4	1	1	1	3	2	3	ND
Pyruvic Acid	ND	ND	ND	ND	ND	ND	ND	ND
R								
Radiation	3	4	3	3	3	2	3	3
S								
Salt Water	4	1	1	2	1	1	1	1
Silicone Greases	1	1	1	1	1	3	1	1
Silver Bromide	ND	ND	ND	ND	ND	ND	ND	ND
Silver Nitrate	1	1	1	2	2	1	1	1
Soap Solutions	3	2	2	2	1	1	1	1
Soda	ND	1	1	1	1	1	1	ND
Soybean Oil	2	3	4	2	1	1	1	1
Steam <300F	4	2	ND	3	4	3	2	4
Sulfuric Acid, 40%	ND	2	4	3	3	4	1	3
T								
Table Salt	1	1	1	1	1	3	1	1
Tannic Acid	1	1	1	2	1	2	1	1
Tetrahydrofuran (THF)	3	2	4	4	4	4	4	4
Titanic Acid	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	4	4	4	4	4	4	2	4
Toloul	4	4	4	4	4	4	ND	4
Trimethyl Amine (TMA)	ND	ND	ND	ND	ND	ND	4	ND
Turpentine	4	4	4	4	1	4	2	4
U								
Uric Acid	ND	ND	ND	ND	ND	ND	ND	ND
V								
Vegetable Oils	1	3	4	1	1	1	1	2
Vinegar	4	1	2	2	2	3	1	1
Vinyl Acetate	4	1	4	4	4	4	4	3
Vinyl Chloride	ND	4	4	4	4	ND	2	ND
W								
Water	1	1	1	2	1	2	1	1
Wax	1	4	4	1	1	1	1	1
X								
Xylene	4	4	4	4	4	4	2	4
Z								
Zinc Acetate	4	1	1	2	2	4	4	1

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