PNEUMADYNE

Specification Sheet

Polyurethane Tubing

Performance Data

Temperature Range	Vacuum	Media	Diameter Tol-erances
-40° to 160° F -28° to 71° C	to 28" Hg	Fluids Compatible w/ Materials	±.005

Product Group	OD/ID	Durometer	Working Pressure psi @ 75°F
PU-125-*	1/8 x 1/16	85A	135
PU-125F-*	1/8 x 1/16	95A	255
PU-156-*	5/32 x 5/64	85A	155
PU-156F-*	5/32 x 3/32	95A	210
PU-250R-*	1/4 x 1/8	70A	60
PU-250-*	1/4 x 1/8	85A	145
PU-250PB-*	1/4 x .170	90A	115
PU-250F-*	1/4 x 1/8	95A	265
PU-312-*	5/16 x 3/16	85A	110
PU-375R-*	3/8 x 1/4	70A	50
PU-375-*	3/8 x 1/4	85A	100
PU-375PB-*	3/8 x .245	90A	125
PU-375F-*	3/8 x .245	95A	170
PU-468F-*	15/32 x 5/16	95A	155
PU-562F-*	9/16 x 3/8	95A	155
PU-750F-*	3/4 x .467	95A	175

Working Pressure: 3 to 1 Safety Factor

Materials

Ether based Polyurethane (PU) Tubing

Chemical Resistance Information (Tubing Information)

	N	PUR	PE	PVC
Acetic Acid, Glacial	-	4	1	4
Acetic Acid, 30%	-	4	1	4
Acetone	-	4	2	4
Acetylene	-	4	1	1
Alkazene	-	4	-	-
Aluminum Chloride (aq)	-	3	2	1
Aluminum Nitrate (aq)	-	3	-	-
Ammonia Anhydrous	-	4	2	1
Ammonia Gas (cold)	-	3	-	-
Ammonia Gas (hot)	-	4		
Ammonia Chloride (aq)	-	1	1	1
Ammonium Sulfate (aq)	-	1	1	1
Amyl Alcohol	-	4	2	1
Amyl Napthalene	-	4	-	-
Animal Fats	-	1	-	-
Aqua Regia	-	4	2	3
Arsenic Acid	-	3	2	1
Asphalt	-	2	1	1
ASTM Fuel A	-	2	-	-
ASTM Fuel B	-	3	-	-
ASTM Fuel C	-	3	1	1
Barium Chloride (aq)	-	1	1	1
Beer	1	2	1	1
Beet Sugar Liquors	-	4	1	1
Benzene	1	3	3	3
Benzine	-	2	-	-
Blast Furnace Gas	-	4	-	-
Bleach Solutions	-	4	-	1
Borax	-	1	1	2
Boric Acid	-	1	1	1
Brake Fluid	-	4	-	-
Brine	-	2	4	3
Bromine Water	4	4	-	-
Bunker Oil	-	2	-	-
Butane	1	1	3	3
Butter	-	1	-	-
Butyl Alcohol	3	4	1	2
Butylene	-	4	1	1
Calcium Chloride (aq)	1	1	2	1
Calcium Hydroxide (aq)	-	1	2	1
Calcium Nitrate (aq)	1	1	-	-
Calcium Sulfide (aq)	-	1	-	-
Cane Sugar Liquors	-	4	-	1
Carbolic Acid	-	3	2	3
Carbon Dioxide	-	1	3	1
Carbon Acid	-	1	2	1
Carbon Monoxide	-	1	2	1
Carbon Tetrachloride	3	4	2	2
Castor Oil	-	1	-	1
Chlorine (dry)	4	4	2	1
Chlorine (wet)	4	4	-	-
Chloroform	3	4	3	4
Chlorox	-	4	-	-
Chromic Acid	4	4	1	1
Citric Acid	1	1	1	2
Coal Tar	-	3	-	-
Coconut Oil	-	2	-	1
Cod Liver Oil	-	1	-	1
Coke Oven Gas	-	4	-	-
Copper Chloride (aq)	-	1	2	1
Copper Cyanide (aq)	-	1	2	1
Corn Oil	-	1	3	2
Cotton Seed Oil	-	1	2	2
Creosol	4	4	3	4
Cychlohexane	1	1	2	4
Denatured Alcohol	-	4	-	-
Detergent Solution	-	4	1	1
Diesel Oil	-	3	3	1
Dioxane	-	4	-	-
Dowtherm Oil	-	3	-	-
Dry Cleaning Fluids	-	4	-	-
Ethane	-	3	-	4
Ethyl Acrylate	-	4	-	-
Ethyl Alcohol	3	4	-	-
Ethyl Benzine	-	4	-	-
Ethyl Cellulose	-	2	-	-
Ethyl Chloride	-	2	-	-
Ethyl Ether	-	3	-	-
Ethylene Chloride	-	4	3	4
Ethylene Glycol	2	4	1	1
Ethylene Oxide	1	4	3	3

	N	PUR	PE	PVC
Ethylene Trichloride	-	4	-	-
Ferric Chloride (aq)	-	1	1	1
Ferric Nitrate (aq)	-	1	2	1
Ferric Sulfate (aq)	-	1	1	1
Fluorine (Liquid)	4	4	3	4
Formaldehyde (RT)	-	4	2	1
Formic Acid	3	3	2	1
Freon 11	-	4	3	1
Freon 12	1	1	3	1
Freon 22	1	4	-	2
Fuel Oil	-	2	3	1
Futural Glucose	-	4	1	1
Glue	-	1	1	3
Glycerin	1	1	1	1
Glycols	1	4	-	-
Green Sulfate Liquor	-	1	-	-
Hexane	-	2	3	2
Hydraulic Oil	-	1	1	1
Hydrochloric Acid (cold) 37%	-	4	2	2
Hydrochloric Acid (hot) 37%	-	4	-	-
Hydrofluoric Acid (Conc.) Cold	-	3	-	-
Hydrochloric Acid (Conc.) Hot	-	4	-	-
Hydrogen Gas	1	1	1	1
Isobutyl Alcohol	-	4	-	-
Isooctane	-	2	-	-
Isopropyl Acetate	-	4	2	4
Isopropyl Alcohol	1	3	-	-
Isopropyl Ether	-	2	1	2
Kerosene	1	1	3	4
Lacquers	-	4	2	3
Lacquer Solvents	-	4	2	3
Lard	-	1	2	1
Lavender Oil	-	4	-	-
Lead Acetate (aq)	-	4	1	1
Linseed Oil	1	2	3	1
Liquid Petroleum Gas	-	-	-	-
Lubricating Oils	-	2	4	2
Lye	-	4	-	-
Magnesium Chloride (aq)	1	1	1	1
Magnesium Hydroxide (aq)	-	4	1	1
Mercury	1	1	1	2
Methane	1	3	-	-
Methyl Acetate	1	4	2	4
Methyl Acrylate	-	4	-	-
Methyl Alcohol	1	4	1	1
Methyl Butyl Ketone	-	4	-	1
Methyl Chloride	3	4	3	4
Methylene Chloride	-	4	3	4
Methyl Ethyl Ketone	1	4	2	4
Methyl Isobutyl Ketone	1	4	-	-
Milk	1	4	1	1
Mineral Oil	1	1	2	1
Naphtha	1	2	1	3
Naphthalene	1	2	1	4
Natural Gas	-	2	-	-
Neatsfoot Oil	-	1	-	-
Nitric Acid (Conc.)	4	4	3	4
Nitric Acid (Delute.)	4	3	-	4
Nitroethane	-	4	-	-
-Nitrogen	-	1	-	-
N-Octane	-	4	-	-
Oleic Acid	1	2	3	3
Oleum Spirits	-	3	4	4
Olive Oil	-	1	1	3
Oxygen-Cold	1	1	-	-
Oxygen (200-400^{0}F)	-	4	-	-
Paint Thinner,Duco	-	4	-	-
Perchloric Acid	-	4	-	-
Perchloroethylene	3	4	4	3
Petroleum- Below 250^{0}F	-	2	-	-
Petroleum- Above 250^{0}F	4	4	-	-
Phenol	4	3	2	3
Phenyl Ethyl Ether	-	4	-	-
Phosphoric Acid 45%	2	1	2	2
Pickling Solution	-	4	-	-
Picric Acid	3	2	-	4
Potassium Acetate (aq)	-	4	-	-
Potassium Chloride (aq)	-	1	1	1
Potassium Cyanide (aq)	-	1	1	1
Potassium Hydroxide (aq)	3	4	1	1
Producer Gas	-	1	1	1

	N	PUR	PE	PVC
Prospane	1	3	3	1
Propyl Alcohol	-	4	-	-
Propylene	-	4	-	-
Proplylene Oxide	-	4	-	-
Pydraul, 10E, 29 ELT	-	4	-	-
Pydraul, 30E, 50E, 65 E	-	4	-	-
Pydraul, 115E	-	4	-	-
Pydraul, 230E, 312C, 540C	-	4	-	-
Rapeseed Oil	-	2	-	-
Red Oil (MIL-H-5606)	-	1	-	-
RJ-1 (MIL-F-23338 B)	-	1	-	-
RP-1 (MIL-F-25576 C)	-	1	-	-
Salt Water	1	2	1	1
Sewage	-	4	-	-
Silicate Esters	-	1	-	-
Silicone Oils	-	1	1	1
Silver Nitrate	-	1	2	1
Skydrol 500	-	4	-	-
Skydrol 700	-	4	-	-
Soap Solutions	1	3	3	1
Sodium Chloride (aq)	1	1	1	1
Sodium Hydroxide (aq)	2	4	2	1
Sodium Peroxide (aq)	-	4	1	2
Sodium Phosphate (aq)	-	1	-	-
Sodium Sulfate (aq)	-	1	1	1
Soy Bean Oil	-	2	1	1
Steam Under 300^{0}F	4	4	-	-
Steam Over 300^{0}F	4	4	-	-
Stoddard Solvent	-	1	3	3
Styrene	-	3	-	4
Sucrose Solution	-	4	-	-
Sulfuric Acid (Dilute)	-	3	1	1
Sulfuric Acid (Conc.)	-	4	3	4
Sulfuric Acid (20% Oleum)	-	4	-	-
Sulfurous Acid	-	3	2	1
Tannic Acid	-	1	2	1
Tetrochlorethylene	-	4	2	4
Toluene	1	4	3	4
Transformer Oil	-	1	-	-
Transmission Fluid Type A	-	1	-	-
Trichloroethane	3	4	-	3
Trichloroethylene	3	4	3	4
Turbine Oil	-	1	3	1
Turpentine	1	4	3	2
Varnish	-	3	3	4
Vinegar	1	4	2	1
Vinyl Chloride	-	4	-	-
Water	1	1	1	1
Whiskey, Wines	1	2	3	1
White Oil	-	1	-	-
Wood Oil	-	3	-	-
Xylene	2	4	3	4
Zinc Acetate (aq)	-	4	-	-
Zinc Chloride (aq)	1	1	1	1

Note: the ratings provided are very general guidelines to be referred to only for initial screening purposes. Specific tubing compounds can be positively or negatively affected by varying temperatures, chemical mixtures and/or static vs. dynamic applications. *Careful testing under actual conditions is essential.* **Accuracy for these ratings is not given or implied.**

N= Nylon **PUR**= Polyurethane
PE= Polyethylene
PVC=Polyvinyl Chloride

Ratings:
1= Little or no impact
2= Minor effect
3= Moderate effect
4= Severe effect