

KEY

- 1 Excellent
- 2 Good
- 3 Fair
- 4 Not Recommended

Environment: % Conc.
w-Water alc-Alcohol

	Tygon® R-3603/R-3603 vacuum	CSR	GA	Tygon® 3350/3370 I.B.	Tygon® 2275/2275 I.B.	Verall®	Tygon® S-50-HL	Tygon® S-54-HI	Tygon® B-44-3	Tygon® B-44-4X	Tygon® B-44-4X I.B.	Noprene® A-60/F/A-60-F I.B.	PharMed®	Tygon® LFL	Tygon® R-1000	Fluran® F-5500-A	Tygon® F-4040-A	Tygon® 2075	Tygon® R-3400	Isa-Vesint®	Noprene® A-60-G	Tygothane® C-210-A/C-210-A I.B.	Buyl	Nitrile	Neprene	Tygon® SE-200	Chemfluor® 367	Chemfluor® FEP	Chemfluor® PFA	Chemfluor® PTFE
Hydrofluoric Acid, 10% in w	1	4	4	4	1	4	1	1	1	1	1	4	4	1	1	1	1	1	1	1	4	4	1	2	2	1	1	1	1	1
Hydrofluoric Acid, 25% in w	1	4	4	4	1	4	1	1	1	1	1	4	4	1	1	1	1	1	1	1	4	4	4	4	4	1	1	1	1	1
Hydrofluoric Acid, 40-48% in w	2	3	3	4	1	4	2	2	1	1	1	4	4	3	3	1	4	1	4	1	4	4	4	4	4	1	1	1	1	1
Hydrogen Gas	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Hydrogen Peroxide, 3% in w	1	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	4	4	1	1	1	1
Hydrogen Peroxide, 10% in w	1	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Hydrogen Peroxide, 30% in w	1	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	4	4	4	1	1	1	1
Hydrogen Peroxide, 90% in w	4	4	4	3	2	3	3	3	3	3	3	2	2	4	4	1	4	2	3	1	2	4	3	4	4	4	1	1	1	1
Hydrogen Sulfide	1	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Hydroquinone, 7% in w	1	2	2	2	1	2	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	2	1	2	3	1	1	1	1
Ityochlorous Acid, 25% in w	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	2	4	4	1	1	1	1	1
Iodine, 50 ppm in w	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Isobutyl Alcohol	4	1	1	4	1	4	4	4	4	4	4	3	3	4	4	1	1	1	1	1	1	3	4	1	2	1	1	1	1	1
Isocetane	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	1	2	4	1	4	1	4	2	4	1	2	1	1	1	1
Isopropyl Acetate	4	3	3	4	4	4	4	4	4	4	4	2	2	4	4	4	4	4	4	4	4	2	4	1	4	4	1	1	1	1
Isopropyl Alcohol	4	1	1	4	1	4	4	4	4	4	4	4	3	3	4	4	1	1	1	1	1	3	4	1	2	1	1	1	1	1
Isopropyl Ether	4	4	4	4	4	4	4	4	4	4	4	4	3	3	4	4	4	3	4	4	4	3	4	4	2	2	1	1	1	1
Jet Fuel, JP8	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	1	2	4	4	1	4	2	4	2	3	1	1	1	1	1
Kerosene	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	1	2	4	4	1	4	2	4	1	4	2	1	1	1	1
Ketones	4	2	2	4	3	4	4	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	1	4	2	1	2	1	1	1
Lacquer Solvents	4	4	4	4	4	4	4	4	4	4	4	2	2	4	4	4	4	4	4	4	4	2	4	4	4	1	1	1	1	1
Lactic Acid, 3-10% in w	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	1	2	1	1	1	1	1	1
Lactic Acid, 85% in w	4	2	2	4	1	4	4	3	4	4	4	2	2	4	4	4	4	1	4	4	4	2	4	2	2	2	1	1	1	1
Lard, Animal Fat	4	4	4	1	2	1	3	2	3	3	3	3	3	4	4	1	1	2	2	1	3	1	2	1	2	1	1	1	1	1
Lead Acetate, 35% in w	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Lead Salts	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Lemon Oil	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	1	3	4	4	1	4	2	4	2	3	1	1	1	1	1
Limonene-D	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	1	3	4	4	1	4	2	4	2	3	1	1	1	1	1
Linoleic Acid	4	4	4	2	3	2	4	4	4	4	4	3	3	4	4	1	2	3	3	1	3	2	4	2	4	1	1	1	1	1
Linseed Oil	4	4	4	1	2	1	3	2	3	3	3	3	3	4	4	1	1	2	2	1	3	1	4	2	3	1	1	1	1	1
Lubricating Oils, Petroleum	4	4	4	2	4	2	4	4	4	4	4	4	4	4	4	1	1	4	4	1	4	1	4	1	4	2	1	1	1	1
Magnesium Carbonate, 1% in w	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Magnesium Chloride, 35% in w	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Magnesium Hydroxide, 10% in w	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Magnesium Nitrate, 50% in w	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Magnesium Sulfate, 25% in w	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Maleic Acid, 30% in w	4	2	2	2	3	2	4	4	4	4	4	3	3	4	4	1	2	3	3	1	3	2	2	2	3	1	1	1	1	1
Malic Acid, 36% in w	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	3	1	1	1	1	1
Manganese Salts	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	1	1	1	1
Mercuric Chloride, 6% in w	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mercuric Cyanide, 8% in w	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mercury	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mercury Salts	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Methane Gas	1	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Methanol	4	1	1	2	1	2	4	4	4	4	4	1	1	4	4	4	2	1	4	4	1	4	1	1	1	1	1	1	1	1
Methyl Acetate	4	4	4	4	4	4	4	4	4	4	4	2	2	4	4	4	4	4	4	4	4	2	4	2	4	2	1	1	1	1
Methyl Bromide	4	4	4	4	4	4	4	4	4	4	4	3	3	4	4	4	4	4	4	4	4	3	4	4	2	4	1	1	1	1
Methyl Chloride	4	4	4	4	4	4	4	4	4	4	4	3	3	4	4	4	4	4	4	4	4	3	4	4	4	1	1	1	1	1
Methyl Ethyl Ketone	4	4	4	4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	1	1	1	1	1
Methyl Isobutyl Ketone	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	1	1	1	1
Methylene Chloride	4	4	4	4	4	4	4	4	4	4	4	4	3	3	4	4	4	4	4	4	4	3	4	4	4	1	1	1	1	1
Methyl Methacrylate	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	1	1	1	1
Milk	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mineral Oil	3	4	4	4	4	4	2	2	2	2	2	4	4	3	4	1	1	4	1	1	4	1	4	2	4	2	1	1	1	1
Mineral Spirits	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	1	1	1	1
Mosses	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Monoethanolamine	4	4	4	4	4	4	4	4	4	4	4	3	3	4	4	4	4	4	4	4	4	4	4	4	3	3	1	1	1	1
Motor Oil	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	1	1	4	4	1	4	4	1	4	1	2	1	1	1	1
Naphtha	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	1	2	4	4	1	4	2	4	3	3	1	1	1	1	1
Naphthalene	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	1	2	4	4	1	4									

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Environment, % Conc.*
w-Water alc-Alcohol

	Tygon® R-360/R-3603 vacuum	GSR	GA	Tygon® 3350/3370 LR	Tygon® 2275/2275 LB	Versilite®	Tygon® S-50-HL	Tygon® S-54-HL	Tygon® B-44-3	Tygon® B-44-4X	Tygon® B-44-4X LB	Norprene® A-60/HA-60-F LB	PharMac®	Tygon® TFL	Tygon® R-1000	Fluon® F-5500-A	Tygon® F-4040-A	Tygon® 2075	Tygon® R-3400	Iso Versimic®	Norprene® A-60-G	Tygothane® C-210-A/C-210-A LB	Buryl	Nitrile	Neoprene	Tygon® SF-200	Chemfluor® 367	Chemfluor® FEP	Chemfluor® PFA	Chemfluor® PTFE	
Palmitic Acid, 100% in ether	4	2	2	2	3	2	4	4	4	4	4	3	3	4	4	1	2	3	3	1	3	2	2	1	2	1	1	1	1	1	
Paraffins	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	2	4	3	2	4	2	4	1	2	1	1	1	1	1	
Perchloric Acid, 67% in w	3	4	4	4	4	4	2	3	2	2	2	1	3	4	1	4	1	4	1	1	1	1	4	2	3	1	1	1	1	1	
Perchloroethylene	4	4	4	4	4	4	4	4	4	4	4	3	3	4	4	4	4	4	4	4	3	4	4	3	4	1	1	1	1	1	
Phenol, 5-10% in w	2	3	3	1	1	1	1	1	1	1	1	1	1	2	3	1	1	1	3	1	1	1	4	2	3	2	1	1	1	1	
Phenol, 91% in w	4	4	4	2	1	2	3	3	3	3	3	1	1	1	4	1	3	1	4	1	1	1	4	2	4	3	1	1	1	1	
Phosphoric Acid, <10% in w	1	2	2	3	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
Phosphoric Acid, 25% in w	1	2	2	4	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	
Phosphoric Acid, 85% in w	1	4	4	4	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	2	4	2	1	1	1	1	
Phosphorus Trichloride Acid	1	4	4	4	1	4	1	1	1	1	1	2	2	1	3	2	4	1	1	2	2	4	1	4	4	1	1	1	1	1	
Photographic Solutions	1	3	3	2	1	2	1	1	1	1	1	2	2	1	1	1	1	1	1	1	2	1	1	2	1	1	1	1	1	1	
Phthalic Acid, 9% in alc	4	2	2	2	1	2	3	3	3	3	3	1	1	4	4	1	3	1	4	1	1	4	1	4	1	1	1	1	1	1	
Phthalic Anhydride, 9% in alc	4	2	2	1	1	1	4	4	4	4	4	1	1	4	4	4	4	1	4	4	1	4	1	4	1	1	1	1	1	1	
Picric Acid, 1% in w	1	2	2	4	1	4	1	1	1	1	1	4	4	1	1	1	1	1	1	4	4	1	4	1	2	2	1	1	1	1	
Plating Solutions	1	4	4	4	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Potassium Carbonate, 55% in w	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Potassium Cyanide, 33% in w	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Potassium Dichromate, 5% in w	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Potassium Hydroxide, <10% in w	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	2	1	1	1	1	1	1	1
Potassium Iodide, 56% in w	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Potassium Permanganate, 6% in w	1	4	4	4	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	2	1	1	1	1	1	1
Potassium Salts	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Propane Gas	1	4	4	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Propylene Glycol	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Propylene Oxide	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	4	4	1	1	1	1	1
Pyridine	4	4	4	4	3	4	4	4	4	4	4	3	3	4	4	4	4	3	4	4	3	4	2	4	4	2	2	2	2	2	2
Salicylic Acid, 1% in w	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1
Silicone Oils	2	1	1	4	1	4	2	2	2	2	2	3	3	2	4	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1
Silver Nitrate, 55% in w	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Skydrol 500A	4	4	4	4	4	4	3	3	3	3	3	4	4	4	4	1	1	4	3	1	4	2	2	4	4	1	1	1	1	1	1
Soap Solutions	1	2	2	1	1	1	1	1	1	1	1	2	2	1	3	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1
Sodium Acetate, 55% in w	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	1
Sodium Benzoate, 22% in w	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sodium Bicarbonate, 7% in w	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sodium Carbonate, 7% in w	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sodium Chlorate, 45% in w	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sodium Chloride, 20% in w	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sodium Cyanide, 30% in w	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sodium Fluoride, 3% in w	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sodium Hydroxide, 10-15% in w	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	1	4	1	1	1	1	1	4	1	2	1	1	1	1	1	1
Sodium Hydroxide, 30-40% in w	3	1	1	1	1	1	1	1	1	1	1	1	1	3	4	1	4	1	4	1	4	1	4	1	4	1	1	1	1	1	1
Sodium Hypochlorite, 5.5% in w	1	2	2	4	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	3	3	1	1	1	1	1	1
Sodium Hypochlorite, 12.2% in w	1	2	2	4	1	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	3	3	1	1	1	1	1	1
Sodium Nitrate, 3.5% in w	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1
Sodium Salts	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sodium Sulfates, 3.6% in w	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Sodium Sulfide, 13% in w	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Stannic Chloride, 50% in w	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1
Stannous Chloride, 45% in w	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Stearic Acid, 5% in alc	4	2	2	2	3	2	4	4	4	4	4	3	3	4	4	1	2	3	3	1	3	2	2	2	2	1	1	1	1	1	1
Styrene Monomer	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	4	4	4	3	4	1	4	4	4	1	1	1	1	1	1
Sulfur Chloride	4	4	4	4	1	4	4	4	4	4	4	4	4	4	4	1	4	1	4	1	4	1	4	4	3	3	1	1	1	1	1
Sulfur Dioxide, Dry Gas	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	4	3	1	1	1	1	1	1
Sulfur Dioxide, Wet Gas	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	3	4	3	1	1	1	1	1	1
Sulfur Trioxide, Wet	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	2	4	4	2	2	2	2	2	2
Sulfuric Acid, 10% in w	1	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	4	2	1	1	1	1	1	1
Sulfuric Acid, 30% in w	1	2	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	2	4	2	1	1	1	1	1	1
Sulfuric Acid, 95-98% in w	4	4	4	4	1	4	4	4	4	4	4	4	4	4	4	1	4	1	4	1	4	4	4	4	4						

TYPICAL PHYSICAL PROPERTIES OF TYGON® & OTHER NORTON TUBINGS

Physical properties of a tubing produced from a specific compound will vary depending on its diameter and wall thickness. The following typical physical properties are average values as measured using test methods of the American Society for Testing and Materials. Unless otherwise noted, all tests were conducted at room temperature 23°C (73°F). Values shown were determined on 2mm (0,075") thick extruded strip or 2mm (0,075") thick ASTM plaques or molded ASTM durometer buttons.

IMPORTANT: It is the user's responsibility to insure the suitability and safety of Norton tubing for all intended uses. Laboratory, field or clinical tests must be conducted in accordance with applicable requirements in order to determine the safety and effectiveness for use of tubing in any particular application.

ASTM Method	Durometer Hardness Shore, A, 15s	Colour	Maximum Recommended Operating Temp °C (°F)	Tensile Strength psi (M Pa)	Ultimate Elongation %	Tensile Set %	Tear Resistance lb.-f/in. (kN/m)	Compression Set** Constant Deflection, B	Brittle Temperature	Specific Gravity	Water Absorption %
	D2240-91			D412-92	D412-92	D412-92	D1004-93	D395-89	D746-79	D792-91	D570-81
Tygon® R-3603	55	Clear	74(165)	1650 (11.4)	450	107	125 (22)	61	-50°C (-58°F)	1.18	0.24
Tygon® R-3603 Vacuum	55	Clear	74(165)	1650 (11.4)	450	107	125 (22)	61	-50°C (-58°F)	1.18	0.24
GSR	45	Red	70(158)	1305 (9)	400	23	80 (14)	28	-56°C (-72°F)	1.13	0.28
GA	40	Light brown	70(158)	3045 (21)	500	13	170 (30)	17	-68°C (-90°F)	0.98	0.47
Tygon® 3350	50*	Translucent	200(392)	1450 (10.0)	770	13	200 (35)	7	-80°C (-112°F)	1.14	0.11
Tygon® 3370 I.B.	70*	Translucent (between braids)	160(320)	1200 (8.3)	500	21	250 (44)	3	-80°C (-112°F)	1.22	0.22
Tygon® 2275	72	Clear	52(125)	2000 (13.8)	700	187	220 (39)	84	-78°C (-108°F)	0.90	0.00
Tygon® 2275 I.B.	72	Clear	52(125)	2000 (13.8)	700	187	220 (39)	84	-78°C (-108°F)	0.90	<0.01
Versilic®	60	Clear	200(392)	1305 (9)	300	8	100 (18)	36	-60°C (-80°F)	1.16	0.06
Tygon® S-50-HL	66	Clear	74(165)	2000 (13.8)	350	76	165 (29)	53	-48°C (-55°F)	1.20	0.14
Tygon® S-54-HL	80	Clear	85(185)	2700 (18.6)	320	33	305 (53)	34	-31°C (-25°F)	1.24	0.11
Tygon® B-44-3	63	Clear	74(165)	2300 (15.8)	410	81	180 (32)	65	-45°C (-49°F)	1.20	0.13
Tygon® B-44-4X	65	Clear	74(165)	2100 (14.5)	450	78	200 (35)	62	-44°C (-47°F)	1.21	0.15

* 1-second reading.

** Test performed at 70°C (158°F) for 22 hours.

ASTM Method	Durometer Hardness Shore, A, 15s	Colour	Maximum Recommended Operating Temp. °C (°F)	Tensile Strength psi (MPa)	Ultimate Elongation %	Tensile Set %	Tear Resistance lb.-f/in. (kN/m)	Compression Set ** Constant Deflection, B	Brittle Temperature	Specific Gravity	Water Absorption %
	D2240-91			D412-92	D412-92	D412-92	D1004-93	D395-89	D746-79	D792-91	D570-81
Tygon® B-44-4X I.B.	65	Clear (between braids)	74(165)	2100 (14.5)	450	78	200 (35)	62	-44°C (-47°F)	1.21	0.15
Norprene® A-60-F	61	Beige	135(275)	1000 (6.9)	375	57	120 (21)	30	-60°C (-75°F)	0.98	0.30
Norprene® A-60-F I.B.	61	Cream	135(275)	1000 (6.9)	375	57	120 (21)	30	-60°C (-75°F)	0.98	0.30
PharMed® Tubing	64	Tan	135(275)	1050 (7.2)	375	47	128 (22)	32	-73°C (-99°F)	0.97	0.30
Tygon® LFL	56	Clear	74(165)	1550 (10.7)	380	44	122 (21)	64	-54°C (-65°F)	1.16	0.18
Tygon® R-1000	40	Clear	52(125)	1200 (8.3)	375	73	52 (9)	57	-75°C (-103°F)	1.12	0.30
Fluran® F-5500-A	60*	Black	204(400)	1400 (9.3)	300	13	100 (18)	37	-51°C (-60°F)	1.90	0.23
Tygon® F-4040-A	57	Translucent Yellow	74(165)	1821 (12.5)	312	50	167 (29)	65	-35°C (-37°F)	1.26	0.49
Tygon® 2075	72	Clear	52(125)	2000 (13.8)	700	187	220 (39)	84	-78°C (-108°F)	0.90	0.01
Tygon® R-3400	64	Black	74(165)	2250 (15.5)	350	66	185 (32)	69	-21°C (-5°F)	1.31	0.19
Iso-Versinic®	60/70	Black	200(392)	(9)	250	9	143 (25)	22	-50°C (-58°F)	1.90	0.20
Norprene® A-60-G	61	Black	135(275)	1000 (6.9)	375	57	120 (21)	30	-60°C (-75°F)	0.98	0.30
Tygothane® C-210-A	82*	Clear	93(200)	6050 (41.7)	500	98	475 (83)	68	-73°C (-100°F)	1.19	1.12
Tygothane® C-544-A I.B.	85*	Transparent Clear	82(180)	5000 (34.5)	400	45	350 (61.3)	19	-73°C (-100°F)	1.12	1.80
Butyl	65	White	100(212)	1160 (8)	600	80	130 (22.8)	64	-40°C (-40°F)	1.45	0.15
Nitrile	65	Black	100(212)	1160 (8)	600	30	100 (17.5)	64	-10°C (-14°F)	1.45	0.81
Neoprene	50	Black	100(212)	1088 (7.5)	450	28	60 (10.5)	31	-38°C (-36°F)	1.55	1.23
Tygon® SE-200	67***	Clear	77(170)	2000 (13.8)	350	76	165 (29)	53	-40°C (-40°F)	1.45	<0.01
Chemfluor® 367	58D*	Clear	204(400)	2300 (15.8)	300	N.A.	N.A.	N.A.	-196°C (-320°F)	2.15	<0.03
Chemfluor® FEP	55D*	Translucent	204(400)	2600 (17.9)	275	N.A.	N.A.	N.A.	-73°C (-100°F)	2.17	<0.01
Chemfluor® PFA	60D*	Translucent	260(500)	2500 (17.2)	300	N.A.	N.A.	N.A.	-196°C (-320°F)	2.17	<0.03
Chemfluor® PTFE	58D*	Translucent	288(550)	2650 (18.3)	250	N.A.	N.A.	N.A.	-268°C (-450°F)	2.18	<0.01

* 1-second reading.

** Test performed at 70°C (158°F) for 22 hours.

*** Durometer measured on outer jacket.

Versilic/Iso-Versinic 22 hours at 175°C. Butyl/Nitrile 22 hours at 100°C