

TYGON® R-3603 Laboratory and Vacuum Tubing



The most consistently reliable tubing for the transfer of liquids and gases, Tygon® Laboratory Tubing handles virtually all inorganic chemicals found in today's laboratories.

Provides Versatility for Today's Laboratories

Crystal clear and flexible, Tygon® Laboratory Tubing handles virtually all inorganic chemicals found in the lab. It is non-oxidizing and non-contaminating.

Long-lasting and crack-resistant, Tygon® Laboratory Tubing is less permeable than rubber tubing. The glassy-smooth inner bore helps prevent buildup so that cleaning is facilitated. Coils are marked at 3-foot intervals for easy measuring.

Tygon® Laboratory Tubing may be safely sterilized by coiling loosely in surgical muslin and autoclaving at 15 psi of steam for 30 minutes. Following initial sterilization, a shrinkage of 2%-4% may be noted. However, no further shrinkage should occur with subsequent sterilizations.

Due to its excellent chemical resistance, Tygon® Laboratory Tubing may also be sterilized chemically or by gas (ethylene oxide). Coil tubing and wrap loosely in muslin or linen and follow the directions of your sterilization equipment manufacturer. Where aeration equipment such as vacuum and drying is required, follow the recommended times for degassing to ensure against gas retention and to reduce any residual concentration below known safety limits.

Secure Fitting Attachment

Tygon® Laboratory Tubing has a Shore A Durometer of 55, which enables it to be slipped over fittings quickly and easily, and to grip securely. Its ability to bend readily to sharp radius curves speeds and simplifies laboratory set-ups.

Tygon® Laboratory Tubing is specially formulated for resistance to flex-fatigue and abrasion. In many peristaltic pump applications, it will outlast its nearest competitor by at least 2 to 1. As a tubing for instrumentation connection, vent, drain, and other general laboratory applications, Tygon® Laboratory Tubing offers superior life, which minimizes the labor and expense of replacement.

Available in Vacuum Tubing Sizes

Tygon® Vacuum Tubing has extra heavy walls that will withstand a full vacuum at room temperature (29.9" [759mm] of mercury at 73°F [23°C] and up to 27" [686 mm] of mercury at 140°F [60°C]). Like standard Tygon® Laboratory Tubing, Tygon® Vacuum Tubing resists most inorganic chemicals and can be used in corrosive atmospheres. Clarity allows monitoring for possible backups, which could result in equipment damage. Tygon® Vacuum Tubing will not swell closed if vacuum pump oil should happen to back into it. Tygon® Vacuum Tubing has a low vapor pressure – less than 3×10^{-2} mm Hg at 140°F.

Consistent performance for reliable analysis

Features/Benefits

- Outstanding chemical resistance
- Lot-to-lot consistency for reproducible results
- Increases productivity in peristaltic pumps – outlasts other clear tubing 2 to 1
- Standard sizes available to hold full vacuum at room temperature
- Smooth, polished inner wall
- Non-aging and non-oxidizing
- Meets FDA CFR part 175.300 criteria

Typical Applications

- General laboratory
- Analytical instruments
- Peristaltic and vacuum pumps
- Ideal for condensers, incubators, desiccators, gas lines and drain lines

