



Tygon® ND 100-55 Tubing for Medical Device Manufacturers

Tygon® ND 100-55 tubing is made from a biocompatible polymer that is not formulated with DEHP. This tubing is crystal clear for easy visualization of fluid flow. The physical properties of Tygon ND 100-55 offer a balance of kink resistance and bondability making it well suited for applications such as fluid transfer and positive displacement pumps.

Tygon ND 100-55 was formulated to meet the requirements of Regulation (EC) 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and does not contain any reportable substances or chemicals of concern.

Tygon® ND 100-55 Typical Physical Properties*

Property	ASTM Method	Value or Rating
Durometer Hardness, Shore A, 15 sec.	D2240	55
Color	–	Clear
Tensile Strength, psi (MPa)	D412	1,725 (11.9)
Ultimate Elongation, %	D412	425
Tear Resistance, lb-f/inch (kN/m)	D1004	145 (25.4)
Specific Gravity	D792	1.18
Water Absorption, % 24 hrs. @ 23°C	D570	0.14
Compression Set, Constant Deflection, % @ 158°F (70°C) for 22 hrs.	D395 Method B	57
Maximum Recommended Operating Temp., °F (°C)	–	165 (74)
Brittleness by Impact Temp., °F (°C)	D746	-53 (-47)
Tensile Stress, @ 100% Elongation, psi (MPa)	D412	596 (4.1)

*Unless otherwise noted, all tests were conducted at room temperature (73°F). Values shown were determined on 0.075" thick extruded strips, 0.075" thick molded ASTM plaques or molded ASTM durometer buttons.

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Features/Benefits

- Crystal clear for easy visualization of fluid flow
- Kink resistance
- Tygon® ND 100-55 has met the requirements of Biological Test for Plastics Class VI, as described in USP <88> (2009)

Typical Applications

- Positive displacement pumps
- Medical fluid transfer

Sterilization Methods

- Autoclavable (Steam 30 min at 15 psi, 250°F/121°C)
- EtO (Ethylene Oxide)
- Radiation (25 kGy)

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