



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.

medical.saint-gobain.com



Saint-Gobain
2664 Gilchrist Road
Akron, OH 44305
Tel: 800-798-1554
Tel: (330) 798-9240

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)

Saint-Gobain Performance Plastics Corporation's Life Science ("Saint-Gobain") products that are used as components in the manufacture of any Medical Devices (as defined by the FDA) are sold by Saint-Gobain only and exclusively to Medical Device manufacturers for use in the manufacture, assembly or distribution of their medical devices. In addition, Saint-Gobain may at the request of a Medical Device manufacturer, to the extent viable, act as an OEM to manufacture a subcontracted finished product for such Medical Device manufacturers that could be classified by such Medical Device manufacturers as a medical device.

Medical Device manufacturers, to whom Saint-Gobain sells components or for whom Saint-Gobain acts as a subcontractor for finished products, are solely responsible for determining whether their finished products are a medical device and to the extent they determine that the finished products are medical devices, the Medical Device manufacturers are obligated to be compliant with all applicable regulations and to ensure that it has received proper country-specific clearance, certification or registration authorizing the sale of such medical devices.

NOTE: This document is intended to provide information about the product to enable you to consider whether generally the Product meets your application need and is not intended to provide product specification. This document should not be considered a Product warranty or guaranty. To the extent this document mentions any tests done by Saint-Gobain, such tests are done under controlled laboratory circumstances and hence other factors in your use and application may impact such values. Saint-Gobain strongly recommends that you conduct practical tests simulating the conditions of your application to ensure that the product meets your requirements for your specific application.

WARRANTY: Saint-Gobain warrants that the Product will meet specifications at the time of delivery and honor such warranty claims for a period of 18 months after delivery. In the event that you are a distributor purchasing Saint-Gobain Product, any change to specification while in your control as a result of storage conditions or otherwise, may cause the above warranty to be voided. THIS IS THE EXCLUSIVE WARRANTY AND IS EXPRESSLY IN LIEU OF ANY AND ALL OTHER OBLIGATIONS, GUARANTEES, WARRANTIES AND REPRESENTATIONS. SAINT-GOBAIN DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Tygon® is a registered trademark of Saint-Gobain Performance Plastics Corporation.