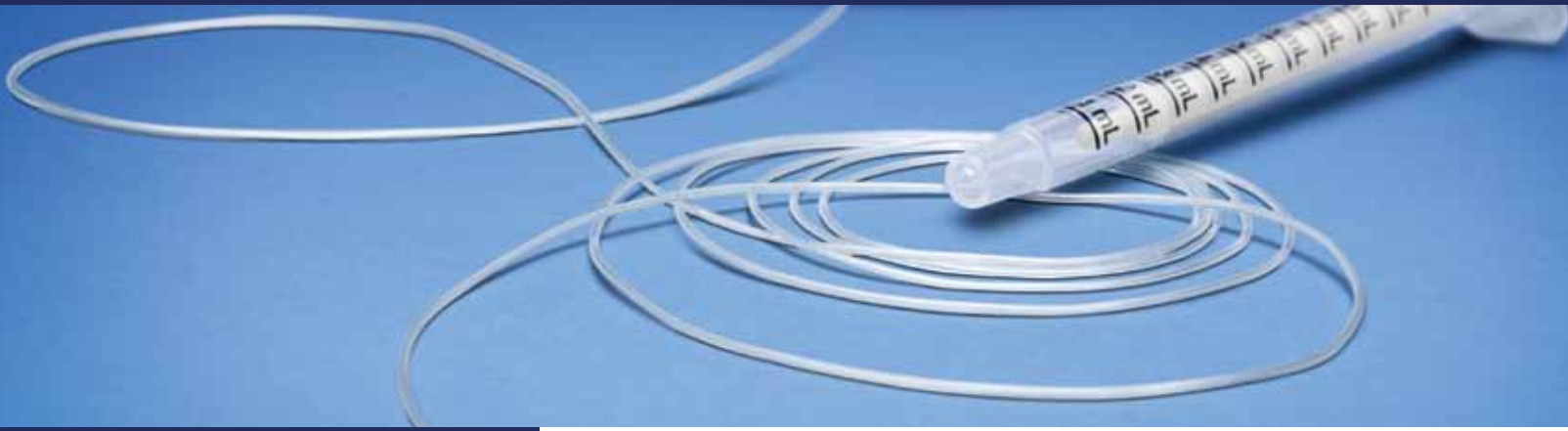


# TYGON®

## ND 100-80 Medical Tubing



### Medical Products

**From the ND Experts:**  
**The next generation in non-DEHP tubing**

#### Features/Benefits

- High rigidity for kink resistance
- Meets USP Class VI criteria
- Compatible with blood
- Clear, with a glass-smooth inner bore
- Reduced flexibility for suction applications
- REACH compliant

#### Typical Applications

- Intravenous or intra-arterial infusion

### TYGON® ND 100-80 Tubing

TYGON® ND 100-80, one of the medical industry's first non-DEHP tubing offerings, has been specifically formulated in a higher durometer that makes it possible to produce smaller diameter tubings with a high resistance to kinking and collapse.

#### Characteristics

TYGON® ND 100-80 is available in five extremely small sizes for use in intravenous or intra-arterial infusion, and other surgical and hospital applications. It is rigid enough for easy handling, yet soft enough to reduce problems with puncturing.

Since TYGON® ND 100-80 is thermoplastic in nature, it can be fabricated into cannulas or protective sheath products using thermoforming and flaring techniques.

The unique chemistry developed by Saint-Gobain, TYGON® ND Series tubing was specifically formulated to ensure the authorization and restriction of CHEMICAL substances (REACH) compliant for use in medical applications. The tubing ensures DEHP levels are <1000 ppb. During the extrusion process, individual product dimensions are maintained and monitored through in-line micrometers and off-line verification with computerized

# ACCUFLOW

#### Biocompatibility

TYGON® ND 100-80 is made from a biocompatible non-DEHP polymer material developed specifically for medical device use. The product is USP Class VI approved and REACH compliant.

[www.accuflo systems.com](http://www.accuflo systems.com) PH: 240-457-4413

## TYGON® ND 100-80 Inventoried Sizes

Part Number	Inside Diameter		Outside Diameter		Wall Thickness		Coil Length	French Sizes	Needle Gauge
	Inches	mm	Inches	mm	Inches	mm	Feet		
AADo4091	.010	.25	.030	.76	.010	.25	500	3	30
AADo4103	.020	.51	.060	1.52	.020	.51	500	5	23
AADo4119	.030	.76	.090	2.29	.030	.76	500	7	20 – 21
AADo4127	.040	1.02	.070	1.78	.015	.38	500	6	18 – 20
AADo4133	.050	1.27	.090	2.29	.020	.51	500	7	17 – 18

## TYGON® ND 100-80 Typical Physical Properties

Property	ASTM Method	Value or Rating
Durometer Hardness, Shore A, 15 sec.	D2240	80
Color	—	Clear
Tensile Strength, psi (MPa)	D412	2,625 (18.1)
Ultimate Elongation, %	D412	350
Tear Resistance, lb-f/inch (kN/m)	D1004	275 (48.2)
Specific Gravity	D792	1.21
Water Absorption, % 24 hrs. @ 73°F (23°C)	D570	0.12
Compression Set, Constant Deflection, % @ 158°F (70°C) for 22 hrs.	D395 Method B	59
Maximum Recommended Operating Temp., °F (°C)	—	185 (85)
Brittleness by Impact Temp., °F (°C)	D746	-31 (-35)
Tensile Modulus, @ 100% Elongation, psi (MPa)	D412	1,450 (10.0)

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

## TYGON® ND 100-80 Characteristics

The biocompatibility of TYGON® ND 100-80 has been tested and found to be non-toxic in the following test protocols:

Opacity	Transparent
FDA Approved for Food Contact	No
NSF 51 Standard	No
USP Class VI	Yes

## Sterilization Methods

Autoclavable	Yes
Gas	Yes
Radiation	Yes

TYGON® tubing is not intended for use as an implant material.

Saint-Gobain Non-DEHP tubing contains DEHP levels of <1000 ppm.

TYGON® is a registered trademark.



### Saint-Gobain Performance Plastics

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**IMPORTANT:** It is the user's responsibility to ensure the suitability and safety of Saint-Gobain Performance Plastics tubing for all intended uses. Laboratory and clinical tests must be conducted in accordance with applicable regulatory requirements in order to determine the safety and effectiveness for use of tubing in any particular application.

For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product to be free from defects in materials and workmanship. Our only obligation will be to replace any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risk, if any, including the risk of injury, loss or damage, direct or consequential, arising out of the use, misuse, or inability to use, this product. THIS WARRANTY IS IN LIEU OF THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. No deviation is authorized.

Saint-Gobain Performance Plastics Corporation assumes no obligations or liability for any advice furnished by it, or for results obtained with respect to those products. All such advice is given and accepted at the buyer's risk.

