SAINT-GOBAIN MEDICAL

TYGON® ND 100-55

Tubing for Medical Device Manufacturers

Tygon® ND 100-55 tubing was engineered for optimal performance in medical device applications. This tubing has demonstrated excellent flow rate stability in both enteral feeding and infusion pump studies and has met the requirements of Biological Test for Plastics, Class VI, as described in USP <88> (2010; fluid path). Tygon ND 100-55 is designed and manufactured without the intentional addition of animal-derived materials or DEHP. Custom sizes available.

TYGON® ND 100-55 TYPICAL PHYSICAL PROPERTIES*

Property	ASTM Method	Value or Rating
Durometer Hardness, Shore A, 15 sec.	D2240	55
Tensile Strength, psi (MPa)	D412	1,725 (11.9)
Ultimate Elongation, %	D412	425
Tear Resistance, lbf/inch (kN/m)	D1004	145 (25,4)
Specific Gravity	D792	1.18
Water Absorption, % 24 hrs at 73°F (23°C)	D570	0.14
Compression Set Under Constant Deflection, % at 158°F (70°C) for 22 hours	D395 Method B	57
Maximum Recommended Operating Temperature, °F (°C)	-	165 (74)
Brittleness by Impact Temperature, °F (°C)	D746	-53 (-47)
Tensile Stress at 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.

TYGON® ND 100-55 TUBING STERILIZATION METHODS

Physical properties are not significantly impacted by the following sterilization methods:

- Autoclavable (steam 30 min at 15 psi, 250°F/121°C)
- EtO (Ethylene Oxide)
- Radiation (25 kGy/2.5 Mrad)

Product recommendations are based on a combination of industry knowledge, material science expertise, and/or material testing data. Contact Saint-Gobain Medical for further tubing recommendation information.

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.

FEATURES/BENEFITS

- Clear for easy visualization of fluid flow
- Regular evaluations to ensure REACH compliance
- Good peristaltic pump performance (including flow rate stability)
- Good kink resistance
- USP <88>, Class VI

TYPICAL APPLICATIONS

- Dialysis Equipment
- Drug delivery
- Respiratory therapy
- Peristaltic pump applications

NOTE: The information provided pertains only to product manufactured at the Saint-Gobain Akron, Ohio facility. 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. 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 complying with the appropriate certifications and registrations.

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