

TYGON®

Non-DEHP S-74 Tubing



Medical Products

Medical Grade, Non-DEHP Formulation

Features/Benefits

- PVC without DEHP plasticizer
- EtO sterilizable
- USP Class VI approved
- Clear and flexible
- Excellent bonding to plastic connectors

Typical Applications

- Fluid administration
- Surgical drains
- Catheters
- Oxygen administration
- Peristaltic pumps

TYGON® Non-DEHP Tubing

TYGON® S-74 is a medical-grade, clear PVC polymer tubing available directly from Saint-Gobain Performance Plastics. This flexible, non-DEHP tubing formulation is ideally suited for catheters, surgical drains, fluid and oxygen-administration applications.

Characteristics

TYGON® S-74 tubing exhibits a smooth surface texture that can be heat- and RF-welded, and solvent bonded to a variety of plastic materials. This material lends itself well to fabrication and custom extrusions for a variety of medical devices. This formulation is ethylene oxide and chemical sterilizable.

Biocompatibility

TYGON® S-74 is a biocompatible polymer developed specifically for medical applications and tested to USP Class VI criteria. This tubing is found to be non-pyrogenic and non-toxic in Systemic Toxicity, Intracutaneous Reactivity and Intramuscular Implant tests.

TYGON® S-74 Typical Physical Properties*

Property	ASTM Method	Value or Rating
Durometer Hardness, Shore A, 15 sec.	D2240-02	56
Tensile Strength, psi (MPa)	D412-98	1,550 (10.7)
Ultimate Elongation, %	D412-98	300
Tensile Set, % @ 75% of ultimate elongation % @ break	D412-98	47 24
Tear Resistance, lb-f/inch (kN/m)	D1004-94	125 (21.9)
Compression Set, Constant Deflection % @ 158°F (70°C) for 22 hours	D395-02 Method B	63
Brittle Temperature, °F (°C)	D746-98	-59 (-51)
Specific Gravity	D792-02	1.18
Water Absorption, %, 24 hours at 73°F (23°C)	D570-98	0.12
Maximum Recommended Operating Temperature °F (°C)	-	165 (74)
Color	-	Clear

* 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® S-74 Relative Chemical Resistance Properties**

Acids	Bases	Salts	E
concentrated F	concentrated E		
medium E	medium E	Alcohols	F
weak E	weak E	Ketones	U

E=Excellent, F=Fair, U=Unsatisfactory

** All tests conducted at room temperature

TYGON® S-74 Product Characteristics

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

TYGON® S-74 Sterilization Methods

Autoclavable	Yes
Gas	Yes
Radiation	No

TYGON® S-74 tubing is not intended for use as an implant material.

TYGON® is a registered trademark.



Saint-Gobain Performance Plastics

2664 Gilchrist Road
Akron, OH 44305
Tel: 800-798-1554
Tel: (330) 798-9240
Fax: (330) 798-6968

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.

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