

TYGON®

S-22-216 Medical Grade PVC Tubing

Medical Products

Medical Grade, Non-DEHP Formulation

Features/Benefits

- PVC without DEHP plasticizer
- Ideal for bodily fluid contact
- Meets USP Class VI
- Withstands EtO, gas and gamma sterilization

Typical Applications

- Blood and IV solutions
- Dialysis equipment
- Peristaltic pumps

TYGON® S-22-216 Non-DEHP Tubing

TYGON® S-22-216 is a medical-grade, clear, non-DEHP polymer tubing offering superior peristaltic pump life and exceptional flexibility with extremely low levels of extractables. TYGON® S-22-216 is ideal for critical applications where fluid administration is of primary importance.

Characteristics

TYGON® S-22-216 offers a smooth surface texture that can be heat and RF welded, and solvent bonded to a variety of plastic materials. These materials lend themselves well to fabrication and custom extrusions for a variety of medical devices. TYGON® S-22-216 is ethylene oxide, chemical and radiation sterilizable.

Biocompatibility

TYGON® S-22-216 is made from a biocompatible polymer material developed specifically for medical applications and meets USP Class VI.

TYGON® S-22-216 Typical Physical Properties*

| Property | ASTM Method | Value or Rating |
|---|-------------|-----------------|
| Durometer Hardness (Shore A), 15s | D2240-03 | 65 |
| Tensile Strength, psi (MPa) | D412-98 | 2,000 (13.8) |
| Ultimate Elongation, % | D412-98 | 400 |
| Tensile Modulus @ 100% Elongation, psi (MPa) | D412-98 | 700 (4.8) |
| @ 300% Elongation, psi (MPa) | | 1,500 (10.3) |
| Specific Gravity | D792-00 | 1.19 |
| 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-22-216 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-22-216 Product Characteristics

| | |
|--------------|-------------|
| Opacity | Transparent |
| USP Class VI | Yes |

TYGON® S-22-216 Sterilization Methods

| | |
|--------------|-----|
| Autoclavable | Yes |
| Gas | Yes |
| Radiation | Yes |

TYGON® S-22-216 tubing is not intended for use as an implant material.

TYGON® is a registered trademark.



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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.

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