



GORE™ TPE Tubing

FOR PERISTALTIC PUMP APPLICATIONS

High-Purity Tubing for Extended Life Peristaltic Pump Operations

Product Description

GORE™ TPE Tubing for Peristaltic Pump Applications (Series AMP) is specifically designed for use in high-purity applications that require extended life peristaltic pumping. This opaque tubing is soft and flexible, thermally weldable, heat sealable and has a broad range of chemical compatibility. GORE™ TPE Tubing for Peristaltic Pump Applications is a specialty thermoplastic elastomer designed to meet the needs of biotech and pharmaceutical processes.

Quality Assurance

GORE™ TPE Tubing is compounded to meet the most demanding requirements of biocompatibility and is manufactured using a pharmaceutical grade thermoplastic elastomer that meets or exceeds the test requirements of the following:

- USP Class VI for Plastics
- USP <381> Elastomeric Closures for Injections

Critical properties are controlled throughout the manufacturing process, which operates under a quality system based on applicable current Good Manufacturing Practices (cGMP).

A FDA drug material master file is available for citation. Additionally, GORE™ TPE Tubing is entirely non-cytotoxic.

Materials of Construction

Thermoplastic elastomer (TPE)

Chemical Compatibility Guidelines

Acids		Bases		Salts	Alcohols	Organic Solvents
Strong	Weak	Strong	Weak			
Y	Y	Y	Y	Y	N	N

Y = Yes N = No



Benefits of GORE™ TPE Tubing

- Offers mechanical properties superior to other thermoplastic elastomers
- Provides good flexibility to meet a variety of processing challenges
- Enables enhanced peristaltic pump life over competitive thermoplastic elastomer products
- Meets specific process connection requirements with compatible stainless steel and non-metallic molded end connections
- Offers versatility in processing with the ability to customize tubing lengths

Typical Applications

- Peristaltic pumps
- Media processing
- Standard fluid transfer
- Cell harvesting/filtration



GORE™ TPE Tubing

FOR PERISTALTIC PUMP APPLICATIONS

Connections and Fittings

GORE™ TPE Tubing is available with a variety of stainless steel and sanitary molded end connections. Custom line sets and molded assemblies that enable GORE™ TPE Tubing to be integrated into your bioprocess are also available. Please consult a Gore representative for details.

Customization Options

Building on a strong heritage of technical leadership and innovation, Gore continues to meet the demands of the marketplace by offering the ability to customize product offerings to meet specific needs. Customization options for GORE™ TPE Tubing include:

- Bulk or coil spool packaging in 25 ft, 50 ft, and 100 ft lengths
- Custom sizes
- Custom packaging including bagging and labeling

Typical Physical Properties

Property	Test Method	Specifications
Durometer hardness, Shore A	ISO 868	69
Specific Gravity	ASTM D792	0.970
Ultimate Tensile Strength, psi	ASTM D412	970
Ultimate Elongation, %	ASTM D412	530
Compression set at 100°C, %	ASTM D395	54
Tensile Set at 23°C, %	ASTM D412	8
Tear strength at 100°C-Die C, lbf/in	ASTM D624	57
Color	—	Opaque

Ordering Information

Part Number	I.D. (inches)	O.D. (inches)	Wall Thickness (inches)
AMP-031-157	0.031	0.157	0.062
AMP-062-187	0.062	0.187	0.062
AMP-125-250	0.125	0.250	0.062
AMP-125-312	0.125	0.312	0.093
AMP-187-312	0.187	0.312	0.062
AMP-187-375	0.187	0.375	0.093
AMP-250-375	0.250	0.375	0.062
AMP-250-437	0.250	0.437	0.093
AMP-250-500	0.250	0.500	0.125
AMP-312-437	0.312	0.437	0.062
AMP-312-500	0.312	0.500	0.093
AMP-375-500	0.375	0.500	0.062
AMP-375-562	0.375	0.562	0.093
AMP-375-625	0.375	0.625	0.125
AMP-500-750	0.500	0.750	0.125
AMP-625-812	0.625	0.812	0.093
AMP-625-875	0.625	0.875	0.125
AMP-750-1000	0.750	1.000	0.125
AMP-750-1125	0.750	1.125	0.187
AMP-1000-1250	1.000	1.250	0.125
AMP-1000-1375	1.000	1.375	0.187

Sterilization

It is the end-users responsibility to validate a sterilization method when using GORE™ TPE Tubing. The end-user should conduct testing if sterilization conditions vary and/or if minor property changes could affect application performance. Recommended sterilization methods include:

- Steam — autoclave up to 125°C
- Gas — ethylene oxide
- Radiation — up to 35 kGy / 3.5 mRad maximum

Shelf Life

When stored in the original unopened packaging at standard conditions, GORE™ TPE Tubing has a recommended shelf life of five years from the production date. When gamma irradiated, GORE™ TPE Tubing has a recommended shelf life of three years from the production date.

Contact Us

For detailed selection criteria, technical assistance and installation guidelines, please contact a Gore representative.

DISTRIBUTOR INFORMATION

To the best of our knowledge, the information contained herein is accurate. Final determination of the suitability of any information or material for the use contemplated and the manner of use is the sole responsibility of the user. The above information gives typical properties only.

GORE and design are trademarks of W. L. Gore & Associates, Inc. All rights reserved. © 2009 W. L. Gore & Associates, Inc. Printed in USA.

W. L. GORE & ASSOCIATES, INC. | GORE PHARMBIO PRODUCTS

402 Vieve's Way • Elkton, MD 21921 • USA

Phone: 410.506.1715 • Toll-Free: 800.294.4673 • pharmbio@wlgore.com

gore.com/pharmbio

