Cole-Parmer®
an antylia scientific company

Tygon® E-1000 Tubing
Food and Beverage Dispensing

E-1000 Tubing

Specially formulated for food and beverage dispensers, Tygon® E-1000 tubing offers high performance even at temperatures as low as -55 °C (-67 °F). Soft and very flexible, tubing easily manages sharp radius curves and multiple directional changes without twisting and collapsing. The low-durometer tubing exhibits minimal resistance to compression, making it ideal for low-torque or battery-operated peristaltic pumps. Made with non-DEHP [bis (2-ethylhexyl) phthalate] plasticizer, Tygon E-100 tubing exhibits excellent resistance to corrosive chemicals.

Specification and Ordering Table

Dimensions: in. (mm)			Max pressure: PSI (bar)	Item number	Roll length (ft)
Tubing ID	Tubing OD	Wall			
1/4"	3/8"	0.0625 (1.6)	26 (1.8)	50106-13	50
3/8"	5/8"	0.0625 (1.6)	16 (1.1)	50106-17	50
1/16"	3/16"	0.0625 (1.6)	10 (0.7)	50106-10	50
1/2"	3/4"	0.0625 (1.6)	8 (0.6)	50106-19	50
1/8"	1/4"	0.125 (3.2)	14 (0.9)	50106-11	50
3/16"	5/16"	0.0625 (1.6)	7 (0.5)	50106-12	50
1/2"	5/8"	0.0625 (1.6)	7 (0.5)	50106-18	50
3/8"	1/2"	0.125 (3.2)	11 (0.8)	50106-16	50
5/16"	7/16"	0.0625 (1.6)	6 (0.4)	50106-15	50
1/4"	1/2"	0.125 (3.2)	8 (0.6)	5010614	50

APPLICATIONS

- General-purpose, laboratory, and single-use applications

FEATURES/BENEFITS

- Free technical application support available to assist with tubing selection
- Remains flexible even at -55 °C (-67 °F)
- Soft and flexible tubing resists twisting and collapsing
- Non-DEHP tubing formulation
- Resistant to corrosive chemicals

CERTIFICATION

Cole-Parmer will provide a certificate of compliance FREE at your request where applicable.

USA	+1.800.323.4340
	+1.847.549.7600
Canada	+1.800.363.5900
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Certificate of Compliance

Product Number: **50108-11** Date: **28 March 2024**
Description: **BARB UNION PP 3/32 ID**
Lot Number: **SAMPLE**

Product Compliance & Specifications

Polypropylene Copolymer material meets the FDA requirements outlined in the Code of Federal Regulations 21 CFR 177.1520(a)(3)(i) and (c)3.1a.

These products have been certified as a USP Class VI Plastic (USP<88>, Biological Reactivity Tests, In Vivo). USP Class VI and ISO 10993.

Manufacturer has stated that based on the information provided to them by their raw material suppliers, review of their product composition, this product is not intentionally manufactured or formulation with tallow or any other animal derived materials or associated with Bovine Spongiform Encephalopathy (BSE) or Transmissible spongiform encephalopathy (TSE) infectivity.

Shelf Life - The manufacturer cannot commit to a shelf life on this product. Each individual condition and application must be tested by the customer to determine the limits of each product, material, and use.

Cole-Parmer certifies that the specified product above meets the manufacturer's latest specifications and any applicable industry standards or regulations, as detailed in this certificate.

Cole-Parmer disclaims any liability for non-compliance of the product with this Certificate of Compliance due to handling or usage post-opening.

It is the end user's responsibility to determine the product's suitability for their intended uses, considering its performance, safety, and regulatory compliance as applicable.

This certificate has been issued by Cole-Parmer's Quality and Regulatory Departments and is considered valid without a signature.

SAMPLE

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Certificate of Compliance

Product Number: **50110-07** Date: **25 March 2024**
Description: **MALE LUR BRB CRYSTLU 1/16**
Lot Number: **SAMPLE**

Product Compliance & Specifications

This resin is compliant with the requirements of 21 CFR section 177.1520 in Federal Food, Drug and Cosmetic Act.

This product has been certified as a USP Class VI Plastic (USP<88>).

This product contains fatty acid salts which are animal derived materials. There is no intentional addition (deliberate use in the formulation of a product or subpart where its continued presence is desired to provide a specific characteristic, appearance or quality), of any chemical substances / animal derived materials into this product. Although one or more ingredients are derived from animal, those are in compliance with EMEA 410/01 6.4 Tallow derivatives.

Shelf Life- The manufacturer does not commit to a shelf life on products. Each individual condition and application must be tested by the customer to determine the limits of each product, material, and use.

Cole-Parmer certifies that the specified product above meets the manufacturer's latest specifications and any applicable industry standards or regulations, as detailed in this certificate.

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SAMPLE

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Certificate of Compliance

Product Number: **50116-19**
Description: **TUBING TPE BRAID 5/8 X 1"**
Lot Number: **SAMPLE**
Mfg. Date: **23 October 2023**
Shelf Life (Months): **60**

Date: **25 March 2024**

Product Compliance & Specifications

All components used in manufacture of this product comply with Title 21 CFR 177.2600. This product has been certified as a USP Class VI Plastic.

The composition of this product complies with the formulary provisions (inclusion in Union list in Table I of Annex I) of Regulation (EU) No. 10/2011 involving plastic materials intended to come into contact with food.

May contain adjuvants from PALM OIL fatty acids.

Complies with Class I/Class II ozone depleting substances as listed in the Clean Air Act of 1990.

Based on the information provided to us by our raw material suppliers, review of their product formula and materials handling and processing procedures, this product should not contain any animal derived ingredients.

The shelf life for Flexelene 135C tubing is limited to 5 years when stored in its original packaging; provided the tubing is stored in dry conditions at room temperature.

Cole-Parmer certifies that the specified product above meets the manufacturer's latest specifications and any applicable industry standards or regulations, as detailed in this certificate.

Cole-Parmer disclaims any liability for non-compliance of the product with this Certificate of Compliance due to handling or usage post-opening.

It is the end user's responsibility to determine the product's suitability for their intended uses, considering its performance, safety, and regulatory compliance as applicable.

This certificate has been issued by Cole-Parmer's Quality and Regulatory Departments and is considered valid without a signature.

SAMPLE

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Certificate of Compliance

Product Number: **50116-40** Date: **28 March 2024**
Description: **TUBING TPE SOFT 5/8 X 7/8**
Lot Number: **SAMPLE**
Mfg. Date: **23 October 2023**
Shelf Life (Months): **60**

Product Compliance & Specifications

Flexelene™ 121C - All components used in manufacture of this product comply with Title 21 CFR 177.2600.

This product has been certified as a USP Class VI Plastic (USP<88>, Biological Reactivity Tests, In Vivo). The use in medical devices and drug packaging applications is not covered by the these claims or any other general regulation.

Based on the information provided by the manufactuer and by review of their product formula and materials handling and processing procedures, they have been able to determine that the product listed above should not contain animal derived ingredients. Based on this information there would be no known sources of Bovine Spongiform Encephalopathy (BSE) or Transmissible spongiform encephalopathy (TSE).

SAMPLE

Cole-Parmer certifies that the specified product above meets the manufacturer's latest specifications and any applicable industry standards or regulations, as detailed in this certificate.

Cole-Parmer disclaims any liability for non-compliance of the product with this Certificate of Compliance due to handling or usage post-opening.

It is the end user's responsibility to determine the product's suitability for their intended uses, considering its performance, safety, and regulatory compliance as applicable.

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Cole-Parmer®
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Tygon® E-1000 Tubing
Food and Beverage Dispensing

E-1000 Tubing

Specially formulated for food and beverage dispensers, Tygon® E-1000 tubing offers high performance even at temperatures as low as -55 °C (-67 °F). Soft and very flexible, tubing easily manages sharp radius curves and multiple directional changes without twisting and collapsing. The low-durometer tubing exhibits minimal resistance to compression, making it ideal for low-torque or battery-operated peristaltic pumps. Made with non-DEHP [bis (2-ethylhexyl) phthalate] plasticizer, Tygon E-100 tubing exhibits excellent resistance to corrosive chemicals.

Specification and Ordering Table

Dimensions: in. (mm)			Max pressure: PSI (bar)	Item number	Roll length (ft)
Tubing ID	Tubing OD	Wall			
1/4"	3/8"	0.0625 (1.6)	26 (1.8)	50106-13	50
3/8"	5/8"	0.0625 (1.6)	16 (1.1)	50106-17	50
1/16"	3/16"	0.0625 (1.6)	10 (0.7)	50106-10	50
1/2"	3/4"	0.0625 (1.6)	8 (0.6)	50106-19	50
1/8"	1/4"	0.125 (3.2)	14 (0.9)	50106-11	50
3/16"	5/16"	0.0625 (1.6)	7 (0.5)	50106-12	50
1/2"	5/8"	0.0625 (1.6)	7 (0.5)	50106-18	50
3/8"	1/2"	0.125 (3.2)	11 (0.8)	50106-16	50
5/16"	7/16"	0.0625 (1.6)	6 (0.4)	50106-15	50
1/4"	1/2"	0.125 (3.2)	8 (0.6)	5010614	50

APPLICATIONS

- General-purpose, laboratory, and single-use applications

FEATURES/BENEFITS

- Free technical application support available to assist with tubing selection
- Remains flexible even at -55 °C (-67 °F)
- Soft and flexible tubing resists twisting and collapsing
- Non-DEHP tubing formulation
- Resistant to corrosive chemicals

CERTIFICATION

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Tygon® E-3603 Tubing
Non-oxidizing and Non-Contaminating

E-3603 Tubing

Use the clear and flexible Tygon E-3603 tubing for various general laboratory applications. Thisonoxidizing and noncontaminating tubing offers excellent chemical resistance to virtually all organic chemicals used in the laboratory. High tolerances and lot-to-lot consistency ensure reproducible results.

Tubing slips over fittings and grips tight for a secure fit, making laboratory setup quick and simple. Abrasion and flex-fatigue resistant tubing provides superior life span.

CERTIFICATION

Cole-Parmer will provide a certificate of compliance FREE at your request where applicable.

APPLICATIONS

- General-purpose, laboratory, and single-use applications

FEATURES/BENEFITS

- Free technical application support available to assist with tubing selection
- Smooth, polished inner wall prevents buildups
- Excellent lot-to-lot consistency for reproducible results
- Great flex fatigue resistance
- BPA and phthalate free

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Specification and Ordering Table

Dimensions: in. (mm)			Max pressure: PSI (bar)	Item number	Roll length (ft)
Tubing ID	Tubing OD	Wall			
1/32"	3/32"	0.03125 (0.8)	70 (4.8)	50106-20	50
1/16"	1/8"	0.03125 (0.8)	36 (2.5)	50106-21	50
1/16"	3/16"	0.0625 (1.6)	70 (4.8)	50106-22	50
3/32"	5/32"	0.03125 (0.8)	25 (1.7)	50106-23	50
3/32"	7/32"	0.0625 (1.6)	46 (3.2)	50106-24	50
1/8"	3/16"	0.03125 (0.8)	20 (1.4)	50106-25	50
1/8"	1/4"	0.0625 (1.6)	36 (2.5)	50106-26	50
5/32"	7/32"	0.03125 (0.8)	17 (1.2)	50106-27	50
3/16"	5/16"	0.0625 (1.6)	25 (1.7)	50106-28	50
3/16"	3/8"	0.09375 (2.4)	36 (2.5)	50106-29	50
1/4"	3/8"	0.0625 (1.6)	20 (1.4)	50106-30	50
1/4"	7/16"	0.09375 (2.4)	28 (1.9)	50106-31	50
1/4"	1/2"	0.125 (3.2)	36 (2.5)	50106-32	50
5/16"	7/16"	0.0625 (1.6)	17 (1.2)	50106-33	50
5/16"	1/2"	0.09375 (2.4)	23 (1.6)	50106-34	50
5/16"	9/16"	0.125 (3.2)	30 (2)	50106-35	50
3/8"	1/2"	0.0625 (1.6)	15 (1)	50106-36	50
3/8"	9/16"	0.09375 (2.4)	20 (1.4)	50106-37	50
3/8"	5/8"	0.125 (3.2)	25 (1.7)	50106-38	50
7/16"	9/16"	0.0625 (1.6)	13 (0.9)	50106-39	50
1/2"	5/8"	0.0625 (1.6)	12 (0.8)	50106-40	50
1/2"	11/16"	0.09375 (2.4)	15 (1)	50106-41	50
1/2"	3/4"	0.125 (3.2)	20 (1.4)	50106-42	50
1/2"	13/16"	0.15625 (4)	25 (1.7)	50106-43	50
5/8"	13/16"	0.09375 (2.4)	13 (0.9)	50106-44	50
5/8"	7/8"	0.125 (3.2)	17 (1.2)	50106-45	50
3/4"	1"	0.125 (3.2)	15 (1)	50106-46	50
3/4"	1-1/8"	0.1875 (4.8)	20 (1.4)	50106-47	50
1"	1-1/4"	0.125 (3.2)	12 (0.8)	50106-48	50
1"	1-1/2"	0.25 (6.4)	20 (1.4)	50106-49	50

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Cole-Parmer
Reinforced Thermoplastic Elastomer (TPE) Tubing

Reinforced Thermoplastic Elastomer Tubing

Designed for use with peristaltic pumps, this soft and flexible, yet durable tubing provide long service life.

Tubing does not contain PVC, DEHP, phthalates, or plasticizers, making them ideal for various pharmaceutical, medical, food, and beverage applications.

Materials

Thermoplastic Elastomer (TPE)

- Excellent chemical resistance

TPE compounds based on SBS and/or SEBS exhibit excellent resistance to water and various solutions. However, some degradation in the compounds can be seen at long-term exposure to organic solvents, oils, and fuels.

CERTIFICATION

Cole-Parmer will provide a certificate of compliance FREE at your request where applicable.

APPLICATIONS

- General-purpose, laboratory, and single-use applications

FEATURES/BENEFITS

- Free technical application support available to assist with tubing selection
- Excellent for use in peristaltic pump applications
- Great alternative to silicone tubing
- Does not contain PVC, DEHP, phthalates, or other plasticizers
- Ultra-low extractables and leachables
- Low gas and oxygen permeability
- Low protein binding and nonpyrogenic material
- Thermally weldable
- USP Class VI, USP 661, and RoHS compliant and BPOG tested

USA	+1.800.323.4340
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UK	+44 (0) 1480.272279
All others	+1.847.549.7600

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Specification and Ordering Table

Dimensions: in. (mm)		Item number	Roll length (ft)
Tubing ID	Tubing OD		
1/2"	3/4"	50116-37	50
3/8"	5/8"	50116-34	50
1/8"	3/8"	50116-28	50
1/4"	1/2"	50116-32	50
1/4"	1/2"	50116-30	50
3/8"	5/8"	50116-33	50
3/4"	1-1/8"	50116-22	50
5/8"	1"	50116-19	50
1"	1-3/8"	50116-26	50
3/4"	1-1/8"	50116-23	50
1/8"	3/8"	50116-29	50
3/8"	5/8"	50116-35	50
5/8"	1"	50116-20	50
1/4"	1/2"	50116-31	50
3/4"	1-1/8"	50116-24	50
1"	1-3/8"	50116-25	50
1/8"	3/8"	50116-27	50
5/8"	1"	50116-21	50
1/2"	3/4"	50116-36	50

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Cole-Parmer
Soft Thermoplastic Elastomer (TPE) Tubing

Soft Thermoplastic Elastomer Tubing

Designed for use with peristaltic pumps, this soft and flexible, yet durable tubing provide long service life.

Tubing does not contain PVC, DEHP, phthalates, or plasticizers, making them ideal for various pharmaceutical, medical, food, and beverage applications.

Materials

Thermoplastic Elastomer (TPE)

- Excellent chemical resistance

TPE compounds based on SBS and/or SEBS exhibit excellent resistance to water and various solutions. However, some degradation in the compounds can be seen at long-term exposure to organic solvents, oils, and fuels.

APPLICATIONS

- General-purpose, laboratory, and single-use applications

FEATURES/BENEFITS

- Excellent for use in peristaltic pump applications where a softer tubing is required
- Great alternative to silicone tubing
- Does not contain PVC, DEHP, phthalates, or other plasticizers
- Ultra-low extractables and leachables
- Low gas and oxygen permeability
- Low protein binding and nonpyrogenic material
- Thermally weldable
- USP Class VI, USP 661, and RoHS compliant and BPOG tested

CERTIFICATION

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All others	+1.847.549.7600

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Specification and Ordering Table

Dimensions: in. (mm)		Item number	Roll length (ft)
Tubing ID	Tubing OD		
1/2"	3/4"	50116-56	50
1/16"	3/16"	50116-43	50
3/16"	1/4"	50116-47	50
3/8"	5/8"	50116-54	50
3/16"	5/16"	50116-48	50
5/16"	7/16"	50116-53	50
1"	1-1/4"	50116-44	50
3/16"	3/8"	50116-49	50
5/8"	7/8"	50116-40	50
3/32"	5/32"	50116-39	50
1/16"	1/8"	50116-41	50
3/8"	1/2"	50116-55	50
1/32"	3/32"	50116-38	50
1/8"	1/4"	50116-46	50
3/4"	1"	50116-42	50
1/8"	3/16"	50116-45	50
1/4"	1/2"	50116-52	50
1/4"	3/8"	50116-50	50
1/4"	7/16"	50116-51	50

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Cole-Parmer
Thermoplastic Elastomer (TPE) Tubing

Thermoplastic Elastomer Tubing

Designed for use with peristaltic pumps, this soft and flexible, yet durable tubing provide long service life.

Tubing does not contain PVC, DEHP, phthalates, or plasticizers, making them ideal for various pharmaceutical, medical, food, and beverage applications.

Materials

Thermoplastic Elastomer (TPE)

- Excellent chemical resistance

TPE compounds based on SBS and/or SEBS exhibit excellent resistance to water and various solutions. However, some degradation in the compounds can be seen at long-term exposure to organic solvents, oils, and fuels.

CERTIFICATION

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APPLICATIONS

- General-purpose, laboratory, and single-use applications

FEATURES/BENEFITS

- Free technical application support available to assist with tubing selection
- Excellent for use in peristaltic pump applications
- Great alternative to silicone tubing
- Does not contain PVC, DEHP, phthalates, or other plasticizers
- Ultra-low extractables and leachables
- Low gas and oxygen permeability
- Low protein binding and nonpyrogenic material
- Thermally weldable
- USP Class VI, USP 661, and RoHS compliant and BPOG tested

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All others	+1.847.549.7600

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Specification and Ordering Table

Dimensions: in. (mm)		Item number	Roll length (ft)
Tubing ID	Tubing OD		
1/4"	7/16"	50116-11	50
3/4"	1"	50116-01	50
3/16"	5/16"	50116-07	50
1/16"	3/16"	50116-02	50
1/16"	1/8"	50115-99	50
3/8"	5/8"	50116-15	50
5/16"	7/16"	50116-13	50
1/4"	1/2"	50116-12	50
3/8"	1/2"	50116-16	50
3/16"	3/8"	50116-08	50
3/32"	5/32"	50115-96	50
3/16"	7/16"	50116-09	50
1/8"	1/4"	50116-05	50
1/32"	3/32"	50115-95	50
1/2"	3/4"	50116-18	50
5/8"	7/8"	50115-98	50
3/32"	7/32"	50115-97	50
1/8"	3/16"	50116-04	50
1/4"	3/8"	50116-10	50
5/16"	1/2"	50116-14	50
3/4"	7/8"	50116-00	50
3/8"	9/16"	50116-17	50
1"	1-1/4"	50116-03	50
3/16"	1/4"	50116-06	50

Cole-Parmer®
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Cole-Parmer
Thermoplastic Vulcanizate (TPV) Tubing
Compatible with most CIP (Clean-in-Place) and SIP (Steam-in-Place) Solutions

Thermoplastic Vulcanizate Tubing

Designed for use with peristaltic pumps, this soft and flexible, yet durable tubing provide long service life.

Tubing does not contain PVC, DEHP, phthalates, or plasticizers, making them ideal for various pharmaceutical, medical, food, and beverage applications.

Materials

Thermoplastic Vulcanizate (TPV)

- Very good chemical compatibility

The tubing consists of an elastomer which vulcanixed, providing good compression set resistance. Highly diurable and resistant to fatigue, acids, alkalis, and most oils and lubricants.

APPLICATIONS

- General-purpose, laboratory, and single-use applications

FEATURES/BENEFITS

- Free technical application support available to assist with tubing selection
- Excellent for use in peristaltic pump applications
- Great alternative to Santoprene™ tubing
- Does not contain PVC, DEHP, phthalates, or other plasticizers
- Ultra-low extractables and leachables
- Low gas and oxygen permeability
- USP Class VI, USP 661, and RoHS compliant and BPOG tested

CERTIFICATION

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Specification and Ordering Table

Dimensions: in. (mm)		Item number	Roll length (ft)
Tubing ID	Tubing OD		
5/16"	1/2"	50115-89	50
1/4"	1/2"	50115-87	50
3/4"	1"	50115-77	50
3/8"	5/8"	50115-90	50
1/2"	5/8"	50115-93	50
1/8"	1/4"	50115-81	50
3/8"	1/2"	50115-91	50
1/4"	7/16"	50115-86	50
3/16"	1/4"	50115-82	50
5/16"	7/16"	50115-88	50
1/8"	3/16"	50115-80	50
3/32"	5/32"	50115-73	50
3/8"	9/16"	50115-92	50
3/16"	5/16"	50115-83	50
1/16"	3/16"	50115-78	50
1/32"	3/32"	50115-72	50
5/8"	7/8"	50115-75	50
3/16"	3/8"	50115-84	50
3/32"	7/32"	50115-74	50
1/16"	1/8"	50115-76	50
1/2"	3/4"	50115-94	50
1"	1-1/4"	50115-79	50
1/4"	3/8"	50115-85	50

Cole-Parmer®
an antylia scientific company

Tygon® A-60-F Tubing
Food and Beverage

A-60-F Tubing

Tubing will not crack or deteriorate, even in extreme temperatures. Featuring high flexural fatigue resistance, tubing is perfect for use in peristaltic pumps often found in food and beverage dispensing equipment. It resists kinks, retains its shape, and remains flexible for quick and easy installation.

This high-performance tubing withstands harsh sanitizing solutions and exhibits exceptional acid and alkali resistance.

Easily clean tubing using clean-in-place or steam-in-place cleaning and sterilization systems or autoclave up to five cycle times without affecting the service life.

CERTIFICATION

Cole-Parmer will provide a certificate of compliance FREE at your request where applicable.

APPLICATIONS

- General-purpose, laboratory, and single-use applications

FEATURES/BENEFITS

- Free technical application support available to assist with tubing selection
- Excellent flexural fatigue resistance—great for use in peristaltic pumps
- Steam clean in place to eliminate frequent tubing replacement
- Chemically compatible with a variety of cleaning solutions

USA	+1.800.323.4340
	+1.847.549.7600
Canada	+1.800.363.5900
China	86.21.5109.9909
France	+33 (0) 1486 37800
Germany	+49 (0) 9377 92030
India	+1.800.266.1244
Italy	+39 (0) 1313 89513
UK	+44 (0) 1480.272279
All others	+1.847.549.7600

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Specification and Ordering Table

Dimensions: in. (mm)			Max pressure: PSI (bar)	Item number	Roll length (ft)
Tubing ID	Tubing OD	Wall			
5/8"	7/8"	0.0625 (1.6)	34 (2.3)	50106-08	50
3/8"	1/2"	0.0625 (1.6)	19 (1.3)	50106-05	50
1/2"	3/4"	0.0625 (1.6)	13 (0.9)	50106-07	50
1/4"	1/2"	0.0625 (1.6)	10 (0.7)	50106-03	50
1/16"	3/16"	0.125 (3.2)	19 (1.37)	50105-99	50
3/4"	1"	0.0625 (1.6)	8 (0.55)	50106-09	50
1/8"	1/4"	0.0625 (1.6)	7 (0.48)	50106-00	50
5/16"	7/16"	0.125 (3.2)	13 (0.9)	50106-04	50
3/8"	5/8"	0.125 (3.2)	10 (0.7)	50106-06	50
1/4"	3/8"	0.125 (3.2)	8 (0.55)	50106-02	50
3/16"	5/16"	0.125 (3.2)	7 (0.48)	50106-01	50

Cole-Parmer®
an antylia scientific company

Tygon® A-60-G Tubing
Chemical Dispensing

A-60-G Tubing

Use the Tygon A-60-G tubing for industrial cleaning and chemical dispensing applications. It has excellent resistance to inorganic fluids (acids and bases) and will not weaken or crack after exposure to heat, UV, and ozone, outperforming neoprene, EPDM, and other general tubing. Tubing also exhibits high flexural fatigue strength, making it ideal for use in peristaltic pumps.

CERTIFICATION

Cole-Parmer will provide a certificate of compliance FREE at your request where applicable.

APPLICATIONS

- General-purpose, laboratory, and single-use applications

FEATURES/BENEFITS

- Free technical application support available to assist with tubing selection
- Outstanding resistance to heat, UV, and ozone
- Use in temperatures ranging from -60 to 135 °C (-75 to 275 °F)
- High flexural fatigue strength—ideal for use in peristaltic pumps
- Heat sealable—no fittings needed to join tubing

USA	+1.800.323.4340
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Canada	+1.800.363.5900
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France	+33 (0) 1486 37800
Germany	+49 (0) 9377 92030
India	+1.800.266.1244
Italy	+39 (0) 1313 89513
UK	+44 (0) 1480.272279
All others	+1.847.549.7600

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Specification and Ordering Table

Dimensions: in. (mm)			Max pressure: PSI (bar)	Item number	Roll length (ft)
Tubing ID	Tubing OD	Wall			
3/8"	9/16"	0.0625 (1.6)	34 (2.3)	50106-60	50
3/8"	1/2"	0.0625 (1.6)	19 (1.3)	50106-59	50
5/16"	1/2"	0.125 (3.2)	34 (2.3)	50106-58	50
3/8"	5/8"	0.0625 (1.6)	13 (0.89)	50106-61	50
1/4"	3/8"	0.0625 (1.6)	10 (0.69)	50106-54	50
1/2"	11/16"	0.09375 (2.4)	15 (1)	50106-64	50
5/16"	7/16"	0.125 (3.1)	19 (1.3)	50106-57	50
5/8"	13/16"	0.0625 (1.6)	8 (0.55)	50106-65	50
1/8"	1/4"	0.09375 (2.4)	12 (0.83)	50106-51	50
5/8"	5/8"	0.0625 (1.6)	7 (0.48)	50106-66	50
1/2"	5/8"	0.09375 (2.4)	10 (0.69)	50106-63	50
1/4"	1/2"	0.125 (3.2)	13 (0.9)	50106-56	50
1/4"	7/16"	0.0625 (1.6)	6 (0.41)	50106-55	50
1/8"	3/8"	0.0625 (1.6)	6 (0.41)	50106-52	50
3/4"	1"	0.09375 (2.4)	8 (0.55)	50106-67	50
1"	1-1/4"	0.09375 (2.4)	7 (0.48)	50106-68	50
3/16"	5/16"	0.125 (3.2)	8 (0.55)	50106-53	50
1/16"	3/16"	0.125 (3.2)	7 (0.48)	50106-50	50
7/16"	9/16"	0.125 (3.2)	6 (0.41)	50106-62	50

Cole-Parmer®
an antylia scientific company

Tygon® F-4040-A Tubing
Fuel and Lubricant

A-60-G Tubing

Use the high-performance Tygon F-4040-A tubing for transferring fuels and industrial lubricants. Specially formulated tubing resists swelling and hardening caused by many hydrocarbon-based fluids that can lead to tubing failure.

Low permeation rating makes this tubing perfect for transferring gasoline, kerosene, heating oils, and glycol-based coolants. Highly flexible translucent yellow tubing provides quick identification, easy monitoring of the flow, and fast installation, even in tight places.

CERTIFICATION

Cole-Parmer will provide a certificate of compliance FREE at your request where applicable.

APPLICATIONS

- General-purpose, laboratory, and single-use applications

FEATURES/BENEFITS

- Free technical application support available to assist with tubing selection
- Resists swelling and hardening caused by hydrocarbon-based fluids
- Low extractables help maintain fluid integrity
- Flexible and easy to install
- Translucent yellow tubing provides quick identification
- Ozone and UV resistant

USA	+1.800.323.4340	Germany	+49 (0) 9377 92030
	+1.847.549.7600	India	+1.800.266.1244
Canada	+1.800.363.5900	Italy	+39 (0) 1313 89513
China	86.21.5109.9909	UK	+44 (0) 1480.272279
France	+33 (0) 1486 37800	All others	+1.847.549.7600

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Specification and Ordering Table

Dimensions: in. (mm)			Max pressure: PSI (bar)	Item number	Roll length (ft)
Tubing ID	Tubing OD	Wall			
3/16"	5/16"	0.0625 (1.55)	35 (2.4)	50105-93	50
1/8"	1/4"	0.0625 (1.6)	50 (3.4)	50105-92	50
1/4"	3/8"	0.0625 (1.55)	50 (3.4)	50105-94	50
5/16"	7/16"	0.0625 (1.6)	25 (1.7)	50105-95	50
3/32"	3/16"	0.046875 (1.2)	50 (3.4)	50105-91	50
3/4"	1"	0.125 (3.2)	20 (1.4)	50105-98	50
3/8"	1/2"	0.0625 (1.6)	20 (1.4)	50105-96	50
1/2"	5/8"	0.0625 (1.6)	15 (1)	50105-97	50

Cole-Parmer®
an antylia scientific company

Tygon® S3™ B-44-3 Tubing
Beverage Dispensing

S3 B-44-3 Tubing

Use the Tygon S3 B-44-3 tubing for transferring a wide variety of beverages including soft drinks, fruit juices, and flavored teas. This specially formulated tubing does not affect the taste or odor of transferred products, and the transferred products do not affect the integrity of the tubing such as color, cracking, hardness, tackiness, and flexibility. The non-wetting properties of the tubing provide complete drainage and allow simple flush cleaning.

Lightweight and flexible, the tubing bends to accommodate corners and obstructions and requires minimal fittings for quick and easy installation. Clear tubing allows you to visually monitor the flow, so you can control or adjust the flow during the process.

CERTIFICATION

Cole-Parmer will provide a certificate of compliance FREE at your request where applicable.

APPLICATIONS

- General-purpose, laboratory, and single-use applications

FEATURES/BENEFITS

- Free technical application support available to assist with tubing selection
- Minimal impact to the taste or odor of products it transfers
- Excellent chemical resistance
- Lightweight and easy to handle
- Clear tubing provides visual monitoring of flow
- Phthalate and BPA free

USA	+1.800.323.4340	Germany	+49 (0) 9377 92030
	+1.847.549.7600	India	+1.800.266.1244
Canada	+1.800.363.5900	Italy	+39 (0) 1313 89513
China	86.21.5109.9909	UK	+44 (0) 1480.272279
France	+33 (0) 1486 37800	All others	+1.847.549.7600

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Specification and Ordering Table

Dimensions: in. (mm)			Max pressure: PSI (bar)	Item number	Roll length (ft)
Tubing ID	Tubing OD	Wall			
3/4"	1"	0.0625 (1.6)	60 (4.1)	50106-75	50
1/4"	3/8"	0.0625 (1.6)	43 (3)	50106-71	50
3/16"	5/16"	0.0625 (1.6)	34 (2.3)	50106-70	50
1/2"	3/4"	0.0625 (1.6)	25 (1.7)	50106-73	50
3/8"	1/2"	0.125 (3.2)	34 (2.3)	50106-72	50
5/8"	7/8"	0.125 (3.2)	29 (2)	50106-74	50
1"	1-1/4"	0.125 (3.2)	25 (1.7)	50106-76	50
1/8"	1/4"	0.125 (3.2)	20 (1.4)	50106-69	50

Cole-Parmer®
an antylia scientific company

Tygon® S3™ B-44-4X Tubing
Food and Beverage

S3 B-44-4X Tubing

This tubing is specifically designed for food and beverage applications. The smooth, nonporous bore promotes easy filling, draining, and transferring of fluids without trapping any particles that can cause bacterial growth.

This lightweight and flexible tubing bends to accommodate corners and obstructions and requires minimal fittings for quick and easy installation. Clear tubing allows you to visually monitor the flow, so you can control or adjust the flow during the process.

CERTIFICATION

Cole-Parmer will provide a certificate of compliance FREE at your request where applicable.

APPLICATIONS

- General-purpose, laboratory, and single-use applications

FEATURES/BENEFITS

- Free technical application support available to assist with tubing selection
- Sanitary fluid path minimizes potential for bacterial growth
- Lightweight, flexible, and easy to handle
- Withstands harsh alkaline cleaners and sanitizers
- Phthalate and BPA free

USA	+1.800.323.4340 +1.847.549.7600	Germany	+49 (0) 9377 92030
Canada	+1.800.363.5900	India	+1.800.266.1244
China	86.21.5109.9909	Italy	+39 (0) 1313 89513
France	+33 (0) 1486 37800	UK	+44 (0) 1480.272279
		All others	+1.847.549.7600

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Specification and Ordering Table

Dimensions: in. (mm)			Max pressure: PSI (bar)	Ite number	Roll length (ft)
Tubing ID	Tubing OD	Wall			
1/4"	3/8"	0.0625 (1.55)	34 (2.3)	50106-79	50
1/4"	7/16"	0.09375 (2.35)	47 (3.2)	50106-80	50
5/16"	7/16"	0.0625 (1.6)	28 (1.9)	50106-81	50
1/2"	3/4"	0.125 (3.15)	34 (2.3)	50106-85	50
3/8"	9/16"	0.09375 (2.4)	34 (2.3)	50106-84	50
1/8"	1/4"	0.0625 (1.6)	60 (4.1)	50106-77	50
5/16"	1/2"	0.09375 (2.4)	40 (2.8)	50106-82	50
3/8"	1/2"	0.0625 (1.6)	25 (1.7)	50106-83	50
5/8"	7/8"	0.125 (3.15)	29 (2)	50106-86	50
3/16"	5/16"	0.0625 (1.55)	43 (2.9)	50106-78	50
1"	1-1/4"	0.125 (3.2)	20 (1.4)	50106-88	50
3/4"	1"	0.125 (3.2)	25 (1.7)	50106-87	50

Cole-Parmer®
an antylia scientific company

Versilon™ C-210-A Tubing
Oil, Fuel and Grease Resistant

C-210-A Tubing

The Versilon C-210-A tubing provides exceptional stability when exposed to oils, fuels, and grease. Use this tough ether-based polyurethane tubing for transferring abrasive and viscous slurries, dispensing lubricants and degreasers, and recovering coolants. The plasticizer-free tubing offers excellent chemical resistance and withstands temperatures ranging from -73 to 79 °C (-100 to 175 °F).

CERTIFICATION

Cole-Parmer will provide a certificate of compliance FREE at your request where applicable.

APPLICATIONS

- General-purpose, laboratory, and single-use applications

FEATURES/BENEFITS

- Free technical application support available to assist with tubing selection
- Excellent abrasion and tear resistance
- Remains flexible even in subzero temperatures
- Consistently tight lot-to-lot tolerances
- Clear tubing to view fluid being transferred

USA	+1.800.323.4340
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Canada	+1.800.363.5900
China	86.21.5109.9909
France	+33 (0) 1486 37800
Germany	+49 (0) 9377 92030
India	+1.800.266.1244
Italy	+39 (0) 1313 89513
UK	+44 (0) 1480.272279
All others	+1.847.549.7600

coleparmer.com

Specification and Ordering Table

Dimensions: in. (mm)			Max pressure: PSI (bar)	Item number	Roll length (ft)
Tubing ID	Tubing OD	Wall			
7/16"	11/16"	0.125 (3.2)	49 (3.4)	50107-04	50
1/4"	5/16"	0.03125 (0.8)	28 (1.9)	50106-95	50
1/2"	3/4"	0.125 (3.15)	46 (3.2)	50107-07	50
5/8"	3/4"	0.0625 (1.55)	24 (1.6)	50107-08	50
5/8"	13/16"	0.09375 (2.35)	32 (2.2)	50107-09	50
5/16"	7/16"	0.0625 (1.55)	36 (2.45)	50106-99	50
1/4"	1/2"	0.125 (3.15)	70 (4.8)	50106-98	50
7/16"	5/8"	0.09375 (2.4)	40 (2.7)	50107-03	50
3/8"	1/2"	0.0625 (1.6)	34 (2.3)	50107-00	50
1/4"	7/16"	0.09375 (2.35)	58 (4)	50106-97	50
3/16"	5/16"	0.0625 (1.6)	56 (3.8)	50106-93	50
3/16"	3/8"	0.09375 (2.35)	70 (4.8)	50106-94	50
1/8"	1/4"	0.0625 (1.6)	74 (5.1)	50106-91	50
3/16"	1/4"	0.03125 (0.8)	34 (2.3)	50106-92	50
3/8"	5/8"	0.125 (3.2)	54 (3.7)	50107-02	50
1/16"	1/8"	0.03125 (0.8)	70 (4.8)	50106-89	50
3/8"	9/16"	0.09375 (2.4)	45 (3.1)	50107-01	50
1/2"	5/8"	0.0625 (1.6)	26 (1.8)	50107-05	50
1/8"	3/16"	0.03125 (0.8)	45 (3.1)	50106-90	50
1/4"	3/8"	0.0625 (1.55)	42 (2.9)	50106-96	50
1/2"	11/16"	0.09375 (2.4)	36 (2.5)	50107-06	50
5/8"	7/8"	0.125 (3.15)	38 (2.6)	50107-10	50
3/4"	15/16"	0.09375 (2.4)	26 (1.8)	50107-11	50
1"	1-1/4"	0.125 (3.2)	28 (1.9)	50107-13	50
3/4"	1"	0.125 (3.2)	33 (2.3)	50107-12	50

Cole-Parmer®
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Versilon™ PFA Tubing
Chemical Resistant

PFA Tubing

Made of high-purity grade fluoropolymer, Versilon PFA tubing provides superior chemical and diffusion resistance. Use in critical applications where precise quality control is required, such as semi-conductor, environmental, and pharmaceutical industries.

Tubing maintains great mechanical strength and resists stress cracking even at high temperatures.

CERTIFICATION

Cole-Parmer will provide a certificate of compliance FREE at your request where applicable.

APPLICATIONS

- General-purpose, laboratory, and single-use applications

FEATURES/BENEFITS

- Free technical application support available to assist with tubing selection
- High-purity grade fluoropolymer ideal for extremely critical applications
- Enhanced burst strength
- Withstands up to 206°C (500 °F)
- Retains excellent mechanical strength even at elevated temperatures

USA	+1.800.323.4340
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Germany	+49 (0) 9377 92030
India	+1.800.266.1244
Italy	+39 (0) 1313 89513
UK	+44 (0) 1480.272279
All others	+1.847.549.7600

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Specification and Ordering Table

Dimensions: in. (mm)		Item number	Roll length (ft)
Tubing ID	Tubing OD		
1/16"	1/8"	50107-39	50
1/8"	1/4"	50107-43	50
5/16"	3/8"	50107-46	50
1/8"	3/16"	50107-40	50
3/16"	1/4"	50107-41	50
1/4"	3/8"	50107-47	50
5/32"	1/4"	50107-42	50
3/4"	7/8"	50107-54	50
3/16"	5/16"	50107-45	50
5/8"	3/4"	50107-53	50
1/2"	9/16"	50107-51	50
1/4"	5/16"	50107-44	50
7/8"	1"	50107-55	50
7/16"	1/2"	50107-49	50
3/8"	7/16"	50107-48	50
3/8"	1/2"	50107-50	50
1/2"	5/8"	50107-52	50

Cole-Parmer®
an antylia scientific company

Versilon™ Silver Tubing
Antimicrobial — Enhibits Growth of Microbes

Silver Antimicrobial Tubing

Formulated with silver-based antimicrobial compound on the inner diameter surface, Versilon™ Silver tubing offers excellent protection against foul odours, discoloration, and formation of mildew and biofilm. Not only do microbes degrade tubing, but it can also contaminate the material being transferred.

While tubing can be washed with detergent and hot water to kill the microbes, this can be time consuming and costly, and it does not provide residual protection against fresh contamination.

With the antimicrobial compound embedded in the inner surface, Versilon Silver tubing ensures the integrity of the fluid by providing lasting protection against microbe growth.

CERTIFICATION

Cole-Parmer will provide a certificate of compliance FREE at your request where applicable.

APPLICATIONS

- General-purpose, laboratory, and single-use applications

FEATURES/BENEFITS

- Free technical application support available to assist with tubing selection
- Plasticizer-free inner bore – excellent for food and beverage applications.
- Reduction in microbe growth effectively minimizes foul odours and discoloration
- Meets FDA and NSF-51 criteria
- Phthalate and BPA free

USA	+1.800.323.4340
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Canada	+1.800.363.5900
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Germany	+49 (0) 9377 92030
India	+1.800.266.1244
Italy	+39 (0) 1313 89513
UK	+44 (0) 1480.272279
All others	+1.847.549.7600

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Specification and Ordering Table

Dimensions: in. (mm)			Max pressure: PSI (bar)	Item number	Roll length (ft)
Tubing ID	Tubing OD	Wall			
1/8" (3.2)	1/4" (6.4)	0.0625 (1.6)	65 (4.5)	50107-14	50
3/16" (4.8)	5/16" (8)	0.0625 (1.6)	50 (3.4)	50107-15	50
1/4" (6.4)	3/8” (9.5)	0.0625 (1.6)	40 (2.7)	50107-16	50
3/8" (9.5)	1/2" (12.7)	0.0625 (1.6)	30 (2)	50107-17	50
1/2" (12.7)	3/4” (19)	0.125 (3.2)	38 (2.6)	50107-18	50