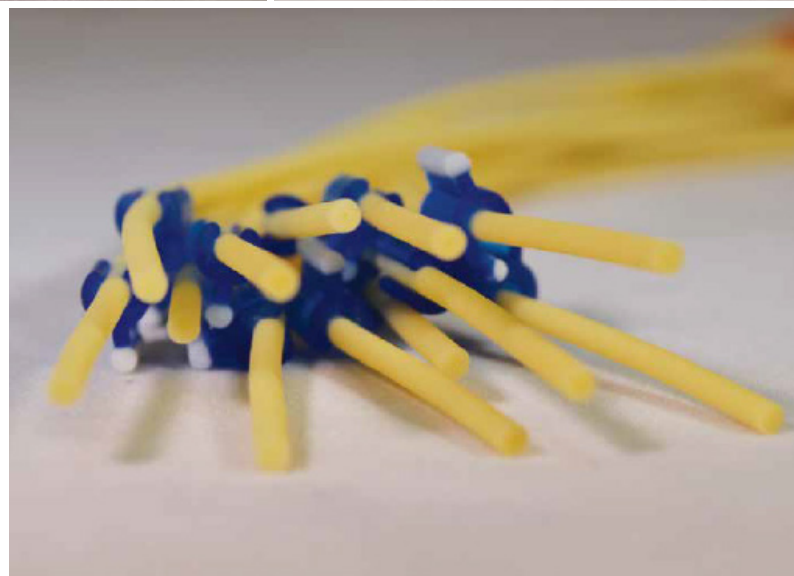
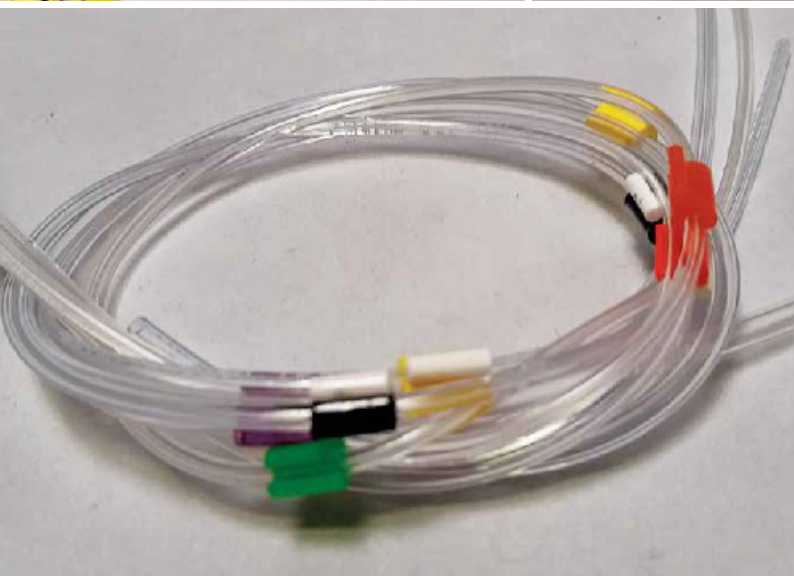
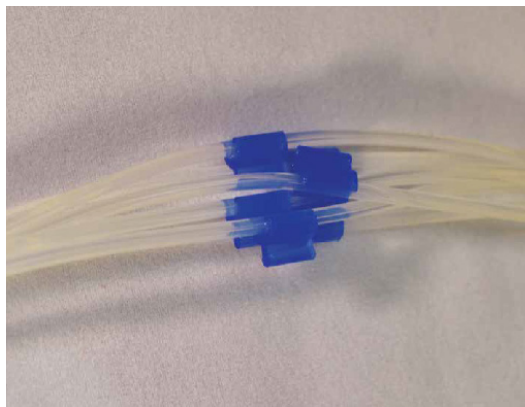
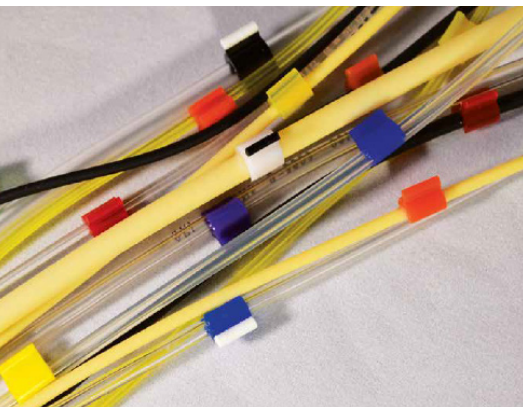


Laboratory tubing and accessories



About us

DKSH Scientific Instrumentation

As governments and private companies in Asia are increasing their investments in research and development as well as in production capacity and capability, laboratories are facing an increasing demand to produce more accurate results in less time at a reduced cost.

With a complete portfolio of instruments, general equipment, consumables, applications and services, DKSH Scientific Instrumentation offers customers total solutions that help to solve complex challenges, improve results and increase productivity. Our solutions include the latest technological innovations to support universities, public and private research institutes, hospitals and industrial and commercial companies. Our solutions approach enables us to design, build, equip and service entire laboratories of our customers. We provide solutions for both laboratory and in-process applications which are used in a wide variety of industries such as material science, oil and gas, environmental, food and beverage, pharmaceutical and life science.

In Australia and New Zealand, the Scientific Instrumentation Business Line supplies a wide range of laboratory instruments, scientific equipment, life science products and consumables, to laboratories in the government, research, university, contract analysis and industrial sectors. We also provide applications support and service across all sectors.



We are a solution provider in these markets:



Academic / Government Research

- Chemistry
- Materials
- Chemical Engineering
- Civil Engineering
- Botany
- Agriculture
- Petroleum
- Minerals
- Food
- Pharmaceutical
- Environmental



Material Science

- Biomaterials
- Photovoltaics
- Nanomaterials
- Polymers
- Composites
- Pharmaceutical
- Glass
- Metals and Alloys
- Minerals
- Ceramic



Life Science

- Protein Research
- Synthetic Chemistry
- Cell Culture and Imaging
- Diagnostic
- Material Characterization
- Fermentation
- Microinjection
- Viscometry and Densimetry



Environmental

- Water and Waste Water Testing
- Soil Analysis
- Plant Analysis
- Air Monitoring and Testing
- Biological Testing
- Waste Management



Energy Resources

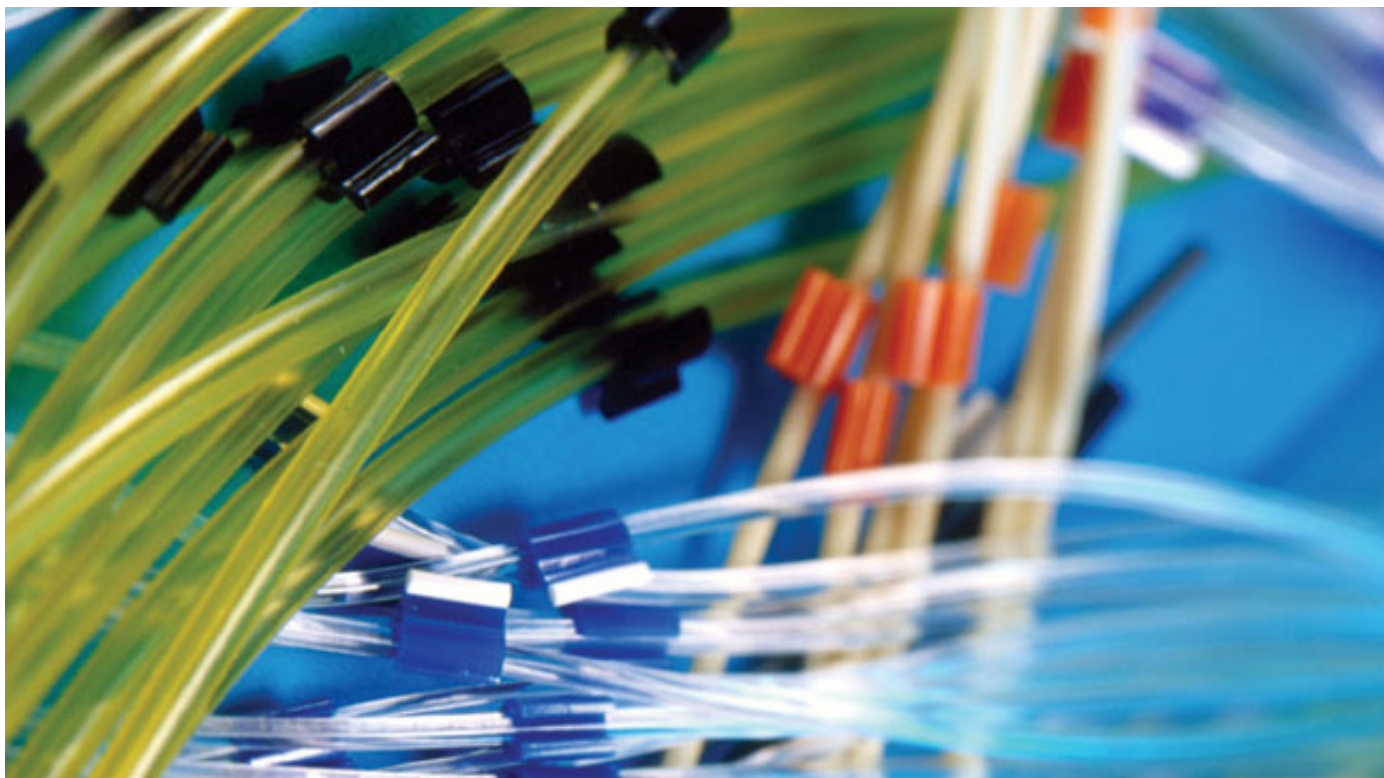
- Petroleum
- Fuel / Gas
- Biodiesel
- Lubricants
- Mining
- Green Chemistry



Food, Dairy and Beverage

- QC / QA
- Production
- Process Engineering
- Research
- Product Development

DKSH laboratory tubing



DKSH has an extensive range of laboratory tubing and accessories to compliment your business.

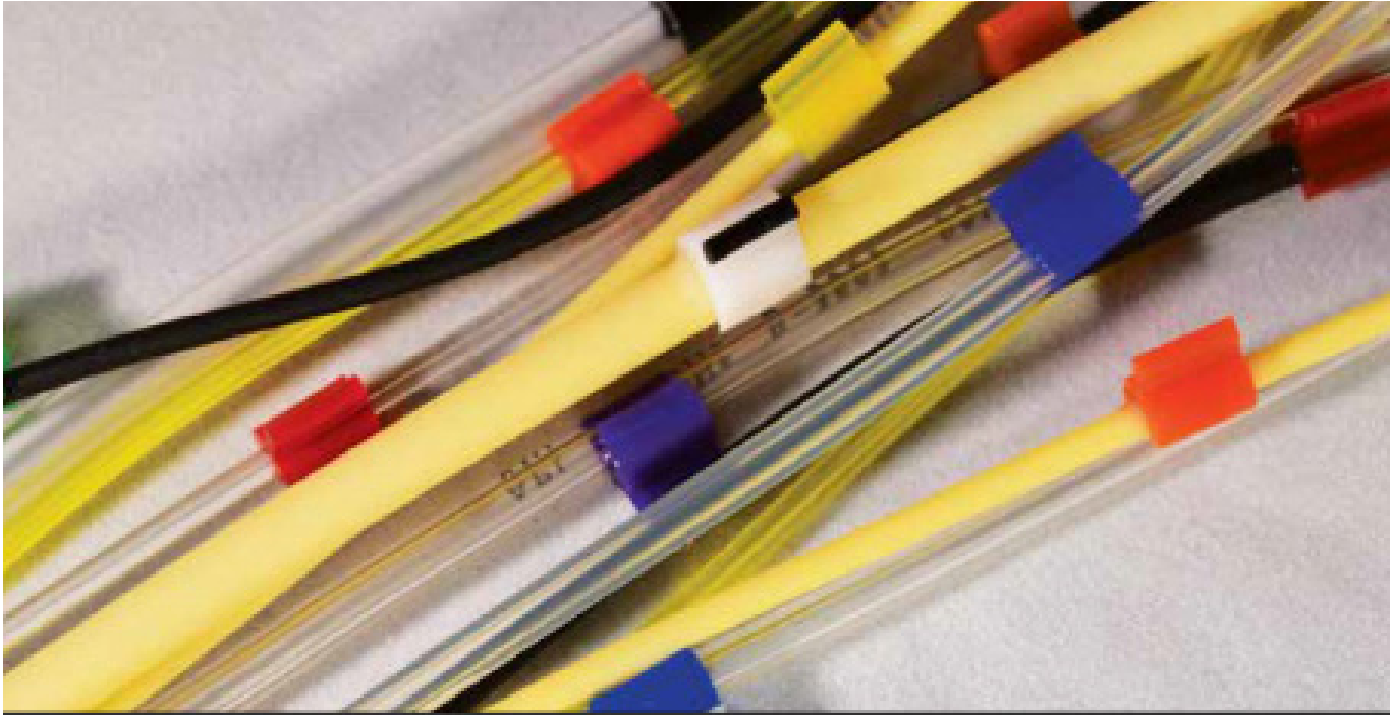
The following guide details most of the commonly used tubing and materials. We also supply all of the uncommon sizes and materials including PTFE, FEP, Polyethylene, Polypropylene, KEL-F and PEEK. If the tubing you require is not listed, don't worry, we can most likely supply it. Just telephone or email us for price and availability.

In addition to tubing we also supply a full range of tubing connectors, and spare parts and accessories for all types of auto analysers. Again just telephone or email us for price and availability.

Index

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Pump tubes



We offer different pump tube materials for all varieties of peristaltic pump applications. The materials are designed with good handling and life expectancy in mind.

Pump tubes come in the following materials:

- PVC – Phthalate-free Polyvinyl Chloride, ideal for most peristaltic pumps
- PVC Solva – Solvent resistant phthalate-free PVC
- Silicone – Peroxide Cured, medical grade; high strength
- Santoprene® – Medical grade thermoplastic rubber; Autoclavable upon request
- Viton® – DuPont based Fluoroelastomer with great elasticity and resistant to organic acids
- Coming soon: Pharmaprene® (a direct replacement to Santoprene®) – great in vacuum environments with very smooth bore ideal for life science applications

Our Tygon™ branded pump tubes come in the following material:

- Tygon™ LMT-55 – Non-DEHP laboratory formula, phthalate-free for auto-analyzer instruments and more
- Tygon S3° E-3603 – Bio-based and phthalate-free laboratory tubing
- Tygon S3° - E-LFL – Bio-based and phthalate-free long flexible life tubing for micro peristaltic pump dispensing
- Pharmed® BPT – Life science application tubing
- Tygon® Dispense – Coextruded tubing with chemical-resistant, plasticizer-free liner
- Tygon® F-4040-A – Hydrocarbon resistant tubing
- Versilic® SPX-50 – Flexible and resilient peroxide-cured silicone tubing

All of the tubing listed here is available in two and three bridge configurations as well as bulk transmission tubing for macrobore peristaltic pump applications.

If you can't find the tubing you are looking for, call or e-mail us with your request for tubing and we'll do our best to meet your needs.

We offer a broad range of Tygon® tubing for different industry needs, including:

- Water treatment
- Industrial
- Laboratory
- Chemicals, fuels and more

We offer different pump tube materials for all varieties of peristaltic pump applications. The materials are designed with good handling and life expectancy in mind.

| | |
|---|---|
| Tygon® Laboratory Tubing – LMT-55 • Phthalate Free Tubing | Tygon S3™ E-3603 Laboratory Tubing • Environmentally Friendly |
| Tygon® F-4040-A Fuel and Lubricant Tubing • Excellent Solvent Resistance | Versilon™ F-5500-A Severe Environment Tubing • Excellent Organic Acid Resistance |
| Tygon® PharMed® BPT Tubing • Long Life Pump Tubing | Versilon™ NT-80 Flexible Reinforced PVC Tubing |
| Tygon® LP-1200 Low Permeation Fuel Tubing | Versilon™ 2001 Plasticizer Free Tubing |
| Tygon® LP-1100 and LP-1500 CARB Rated Tubing | Versilon™ R-3400 UV Resistant Tubing |
| Tygon S3™ E-LFL Long Flex Life Pump Tubing | Versilon™ SE-200 Inert Tubing |
| Tygon® non-DEHP Medical/Surgical Tubing • Formulation ND-100-65 | Versilon™ Silver Tubing |
| Tygon® non-DEHP Microbore Tubing • Formulation ND-100-65 | Versilon™ C-210-A Precision Polyurethane Tubing |
| Tygon® High Purity Tubing • Formulation 2475 • Formulation 2475 I.B. | Versilon™ C-544-A-IB Polyurethane Pressure Tubing |
| Tygon® A-60-F Food Process Tubing | Versilon™ Flexible Vinyl Tubing |
| Tygon® A-60-F-IB Pressure Tubing | Chemfluor® PTFE Tubing |
| Tygon® A-60-G Industrial Grade Tubing | Tygon® E-1000 Ultra Soft Tubing |
| Tygon S3™ B-44-3 Beverage Tubing | Tygon® Chemical Tubing |
| Tygon S3™ B-44-4X Food, Milk and Dairy Tubing | Tygon® 2375 Ultra Chemical Resistant Tubing |
| Tygon S3™ B-44-4X-IB Pressure Tubing | Tygon® XL-60 Pump Tubing |

PVC pump tubes

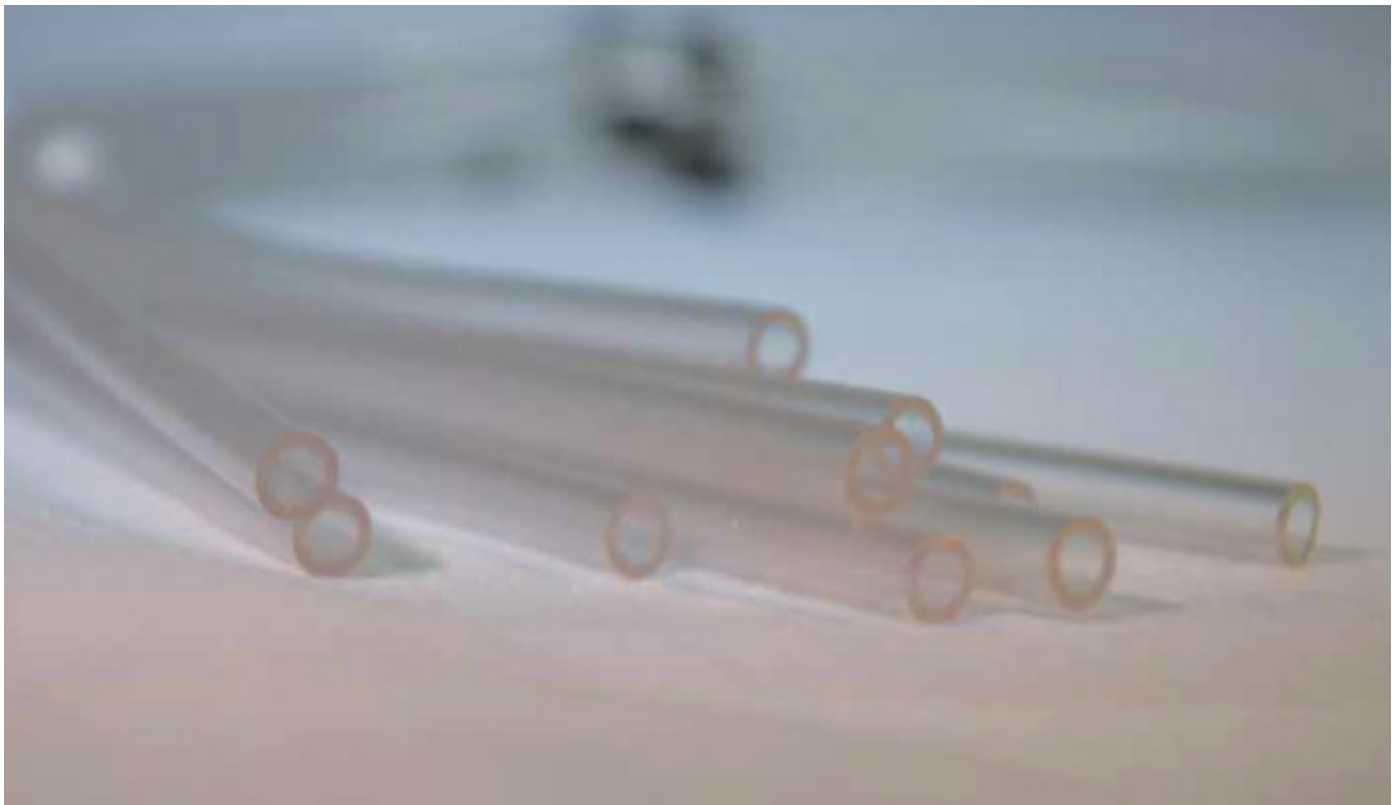
PVC (Polyvinyl Chloride) is produced by polymerization of Vinyl Chloride Monomer. In order to produce commercial grades of the polymer - which meet various specification requirements - it is compounded with other additives using extrusion and mixing techniques. Depending on the additives used, properties such as flexibility, clarity, color, heat stability, density and chemical resistance can be controlled and modified.

This compound can be produced in granular or powder form. PVC has been used across all industries, including medical, for the last 50 years. It is one of the most widely researched and used thermoplastic materials today.

Historically, PVC has been used as a replacement material for rubbers and glass components. Other uses have developed rapidly due to its ability to optimize

performance and safety requirements at a low cost. PVC is characterized by a high degree of biocompatibility, transparency - where needed - and flexibility under changing temperatures and humidities. PVC is easily sterilized to meet a number of industry and medical standards. It also has excellent water and chemical resistance. Phthalate free and DEHP FREE to meet stringent European REACH standards.

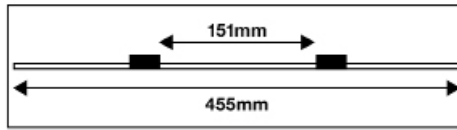
| | | |
|---|--|---|
| Product: Phthalate Free PVC | Excellent Pumping Life Good Handling Characteristics Low Permeability | Hardness: 59 Shore A Elongation at Break: 400% - 470% |
| Full Name: Polyvinyl Chloride | Temperature Range -73°C to +74°C (-99°F to +165°F) | Certification: Meets USP Class VI and BS2463 US Pharmacopoeia Tested and Certified |
| Applications: Peristaltic Pump, Laboratory and Pharmaceutical | Sterilizations: Ethylene Oxide Autoclave | |
| Characteristics: Supple, Strong | | |































































PVC pump tubes

116-0549-XX/SC00XX Series 2 Bridge PVC Standard Pump Tubes

Available in packs of 12 tubes



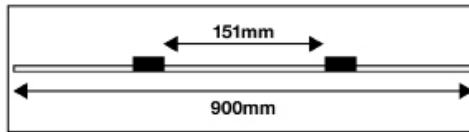
For Flared Tubing place an "F" in front of the 178-3748-XX series part number. For example: F178-3748-10

| Metric I.D. | Description | Part No.* | Color Code | |
|---|---------------|-------------|---|---|
| 0.13mm | Orange/Black | 116-0549-01 |  |  |
| 0.19mm | Orange/Red | 116-0549-02 |  |  |
| 0.25mm | Orange/Blue | 116-0549-03 |  |  |
| 0.28mm | White/Blue | |  |  |
| 0.31mm | Red/Blue | 116-0549-20 |  |  |
| 0.33mm | Brown/Blue | |  |  |
| 0.36mm | Brown/Black | |  |  |
| 0.38mm | Orange/Green | 116-0549-04 |  |  |
| 0.44mm | Green/Yellow | SC0004 |  |  |
| 0.51mm | Orange/Yellow | 16-0549-05 |  |  |
| 0.57mm | White/Yellow | SC0006 |  |  |
| 0.64mm | Orange/White | 116-0549-06 |  |  |
| 0.76mm | Black/Black | 116-0549-07 |  |  |
| 0.89mm | Orange/Orange | 116-0549-08 |  |  |
| 0.95mm | White/Black | SC0010 |  |  |
| 1.02mm | White/White | 116-0549-09 |  |  |
| 1.09mm | White/Red | SC0012 |  |  |
| 1.14mm | Red/Red | 16-0549-10 |  |  |
| 1.22mm | Red/Grey | SC0014 |  |  |
| 1.30mm | Grey/Grey | 116-0549-11 |  |  |
| 1.42mm | Yellow/Yellow | 116-0549-12 |  |  |
| 1.52mm | Yellow/Blue | 116-0549-19 |  |  |
| 1.65mm | Blue/Blue | 116-0549-13 |  |  |
| 1.75mm | Blue/Green | SC0019 |  |  |
| 1.85mm | Green/Green | 116-0549-14 |  |  |
| 2.06mm | Purple/Purple | 116-0549-15 |  |  |
| 2.29mm | Purple/Black | 116-0549-16 |  |  |
| 2.54mm | Purple/Orange | 116-0549-17 |  |  |
| 2.79mm | Purple/White | 116-0549-18 |  |  |
| 3.18mm | Black/White | 116-0549-21 |  |  |
| * Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in a minimum order requirement, longer lead times or may not be available. | | | | |





























































PVC pump tubes

A170-0596-XX Series PVC 2 Bridge Long Length Pump Tubes

Available in packs of 12 tubes



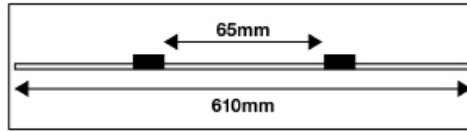
For Flared tubing place an "F" in front of the 170-0596-XX part number. For example: F170-0596-09

| Metric I.D. | Description | Part No.* | Color Code | |
|--|---------------|---------------|---|---|
| 0.13mm | Orange/Black | A170-0596-01* |  |  |
| 0.19mm | Orange/Red | A170-0596-02* |  |  |
| 0.25mm | Orange/Blue | A170-0596-03 |  |  |
| 0.28mm | White/Blue | |  |  |
| 0.31mm | Red/Blue | A170-0596-20 |  |  |
| 0.33mm | Brown/Blue | |  |  |
| 0.36mm | Brown/Black | |  |  |
| 0.38mm | Orange/Green | A170-0596-04 |  |  |
| 0.44mm | Green/Yellow | |  |  |
| 0.51mm | Orange/Yellow | A170-0596-05 |  |  |
| 0.57mm | White/Yellow | |  |  |
| 0.64mm | Orange/White | A170-0596-06 |  |  |
| 0.76mm | Black/Black | A170-0596-07 |  |  |
| 0.89mm | Orange/Orange | A170-0596-08 |  |  |
| 0.95mm | White/Black | |  |  |
| 1.02mm | White/White | A170-0596-09 |  |  |
| 1.09mm | White/Red | |  |  |
| 1.14mm | Red/Red | A170-0596-10 |  |  |
| 1.22mm | Red/Grey | |  |  |
| 1.30mm | Grey/Grey | A170-0596-11 |  |  |
| 1.42mm | Yellow/Yellow | A170-0596-12 |  |  |
| 1.52mm | Yellow/Blue | A170-0596-19 |  |  |
| 1.65mm | Blue/Blue | A170-0596-13 |  |  |
| 1.75mm | Blue/Green | |  |  |
| 1.85mm | Green/Green | A170-0596-14 |  |  |
| 2.06mm | Purple/Purple | A170-0596-15 |  |  |
| 2.29mm | Purple/Black | A170-0596-16 |  |  |
| 2.54mm | Purple/Orange | A170-0596-17* |  |  |
| 2.79mm | Purple/White | A170-0596-18 |  |  |
| 3.18mm | Black/White | |  |  |
| * Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in an minimum order requirement, longer lead times or may not be available. | | | | |





























































PVC pump tubes

178-3748-XX Series PVC 2 Bridge Analytical Pump Tubes

Available in packs of 12 tubes



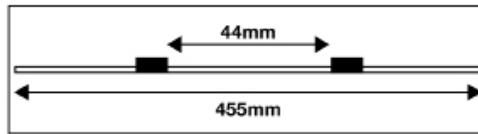
For Flared Tubing place an "F" in front of the 178-3748-XX series part number. For example: F178-3748-10

| Metric I.D. | Description | Part No.* | Color Code | |
|---|---------------|---------------|---|---|
| 0.13mm | Orange/Black | A178-3748-01* |  |  |
| 0.19mm | Orange/Red | A178-3748-02* |  |  |
| 0.25mm | Orange/Blue | A178-3748-03 |  |  |
| 0.28mm | White/Blue | |  |  |
| 0.31mm | Red/Blue | A178-3748-20 |  |  |
| 0.33mm | Brown/Blue | |  |  |
| 0.36mm | Brown/Black | |  |  |
| 0.38mm | Orange/Green | A178-3748-04 |  |  |
| 0.44mm | Green/Yellow | |  |  |
| 0.51mm | Orange/Yellow | A178-3748-05 |  |  |
| 0.57mm | White/Yellow | |  |  |
| 0.64mm | Orange/White | A178-3748-06 |  |  |
| 0.76mm | Black/Black | A178-3748-07 |  |  |
| 0.89mm | Orange/Orange | A178-3748-08 |  |  |
| 0.95mm | White/Black | |  |  |
| 1.02mm | White/White | A178-3748-09 |  |  |
| 1.09mm | White/Red | |  |  |
| 1.14mm | Red/Red | A178-3748-10 |  |  |
| 1.22mm | Red/Grey | |  |  |
| 1.30mm | Grey/Grey | A178-3748-11 |  |  |
| 1.42mm | Yellow/Yellow | A178-3748-12 |  |  |
| 1.52mm | Yellow/Blue | A178-3748-19 |  |  |
| 1.65mm | Blue/Blue | A178-3748-13 |  |  |
| 1.75mm | Blue/Green | |  |  |
| 1.85mm | Green/Green | A178-3748-14 |  |  |
| 2.06mm | Purple/Purple | A178-3748-15 |  |  |
| 2.29mm | Purple/Black | A178-3748-16 |  |  |
| 2.54mm | Purple/Orange | A178-3748-17* |  |  |
| 2.79mm | Purple/White | A178-3748-18 |  |  |
| 3.18mm | Black/White | |  |  |
| * Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in a minimum order requirement, longer lead times or may not be available. | | | | |

PVC pump tubes

190-0427-XX Series 2 Bridge PVC Pump Tubes

Available in packs of 12 tubes



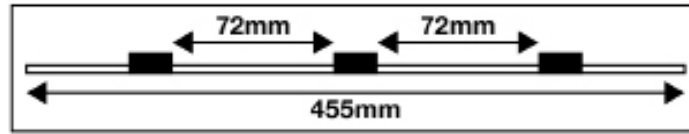
For Flared Tubing place an "F" in front of the 190-0427-XX series part number. For example: F190-0427-08

| Metric I.D. | Description | Part No.* | Color Code | |
|--|---------------|--------------|------------|--|
| 0.13mm | Orange/Black | 190-0427-01* | | |
| 0.19mm | Orange/Red | 190-0427-02* | | |
| 0.25mm | Orange/Blue | 190-0427-03 | | |
| 0.28mm | White/Blue | | | |
| 0.31mm | Red/Blue | | | |
| 0.33mm | Brown/Blue | | | |
| 0.36mm | Brown/Black | | | |
| 0.38mm | Orange/Green | 190-0427-04 | | |
| 0.44mm | Green/Yellow | | | |
| 0.51mm | Orange/Yellow | 190-0427-05 | | |
| 0.57mm | White/Yellow | | | |
| 0.64mm | Orange/White | 190-0427-06 | | |
| 0.76mm | Black/Black | 190-0427-07 | | |
| 0.89mm | Orange/Orange | 190-0427-08 | | |
| 0.95mm | White/Black | | | |
| 1.02mm | White/White | 190-0427-09 | | |
| 1.09mm | White/Red | | | |
| 1.14mm | Red/Red | 190-0427-10 | | |
| 1.22mm | Red/Grey | | | |
| 1.30mm | Grey/Grey | 190-0427-11 | | |
| 1.42mm | Yellow/Yellow | 190-0427-12 | | |
| 1.52mm | Yellow/Blue | 190-0427-19 | | |
| 1.65mm | Blue/Blue | 190-0427-13 | | |
| 1.75mm | Blue/Green | | | |
| 1.85mm | Green/Green | 190-0427-14 | | |
| 2.06mm | Purple/Purple | 190-0427-15 | | |
| 2.29mm | Purple/Black | 190-0427-16 | | |
| 2.54mm | Purple/Orange | 190-0427-17* | | |
| 2.79mm | Purple/White | 190-0427-18 | | |
| 3.18mm | Black/White | | | |
| * Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in an minimum order requirement, longer lead times or may not be available. | | | | |

PVC pump tubes

SC00XX Series 3 Bridge PVC Pump Tubes

Available in packs of 12 tubes



For Flared Tubing place an "F" in front of the SC00XX series part number. For example: FSC0059

| Metric I.D. | Description | Part No.* | Color Code | | |
|--|----------------------|-----------|------------|--|--|
| 0.13mm | Orange/Black/Orange | SC0189 | | | |
| 0.19mm | Orange/Red/Orange | SC0049 | | | |
| 0.25mm | Orange/Blue/Orange | SC0050 | | | |
| 0.28mm | White/Blue/White | | | | |
| 0.31mm | Red/Blue/Red | | | | |
| 0.33mm | Brown/Blue/Brown | | | | |
| 0.36mm | Brown/Black/Brown | | | | |
| 0.38mm | Orange/Green/Orange | SC0051 | | | |
| 0.44mm | Green/Yellow/Green | SC0052 | | | |
| 0.51mm | Orange/Yellow/Orange | SC0053 | | | |
| 0.57mm | White/Yellow/White | SC0054 | | | |
| 0.64mm | Orange/White/Orange | SC0055 | | | |
| 0.76mm | Black/Black/Black | SC0056 | | | |
| 0.89mm | Orange/Orange/Orange | SC0057 | | | |
| 0.95mm | White/Black/White | SC0058 | | | |
| 1.02mm | White/White/White | SC0059 | | | |
| 1.09mm | White/Red/White | SC0060 | | | |
| 1.14mm | Red/Red/Red | SC0061 | | | |
| 1.22mm | Red/Grey/Red | SC0062 | | | |
| 1.30mm | Grey/Grey/Grey | SC0063 | | | |
| 1.42mm | Yellow/Yellow/Yellow | SC0064 | | | |
| 1.52mm | Yellow/Blue/Yellow | SC0065 | | | |
| 1.65mm | Blue/Blue/Blue | SC0066 | | | |
| 1.75mm | Blue/Green/Blue | SC0067 | | | |
| 1.85mm | Green/Green/Green | SC0068 | | | |
| 2.06mm | Purple/Purple/Purple | SC0069 | | | |
| 2.29mm | Purple/Black/Purple | SC0070 | | | |
| 2.54mm | Purple/Orange/Purple | SC0071 | | | |
| 2.79mm | Purple/White/Purple | SC0072 | | | |
| 3.18mm | Black/White/Black | SC0073 | | | |
| * Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in an minimum order requirement, longer lead times or may not be available. | | | | | |

PVC solva pump tubes

PVC Solva is a range of small bore tubing to meet a wide range of applications. It can be used in conjunction with aromatic oils, inks, petroleum compound, solvents and many other applications. It is Phthalate Free, which meets the requirements of the REACH regulation. Solva has similar chemical resistance to Viton tubing, but is more competitively priced. The PVC contains at TOTM plasticizer which maintains the integrity of the Solva during

transportation of any oils that you are using. It also has a low gas permeability. It is flexible, translucent for any visual needs, but also bright yellow to contrast standard PVC. It is designed to offer a best-in-class pumping life and a wide compatibility with most pumping systems.

Product:

Phthalate Free Solvent Resistant Medical Grade PVC, highly extraction resistant

Full Name:

Polyvinyl Chloride

Applications:

Laboratory and Industrial
For use with Peristaltic Pumps, with Solvent and Aromatic Oils

Characteristics:

Good Chemical Resistance
Excellent Pumping Life
Good Handling Characteristics
Low Permeability

Temperature Range

-50°C to +74°C (-58°F to +165°F)

Sterilizations:

Ethylene Oxide
Autoclave

Hardness:

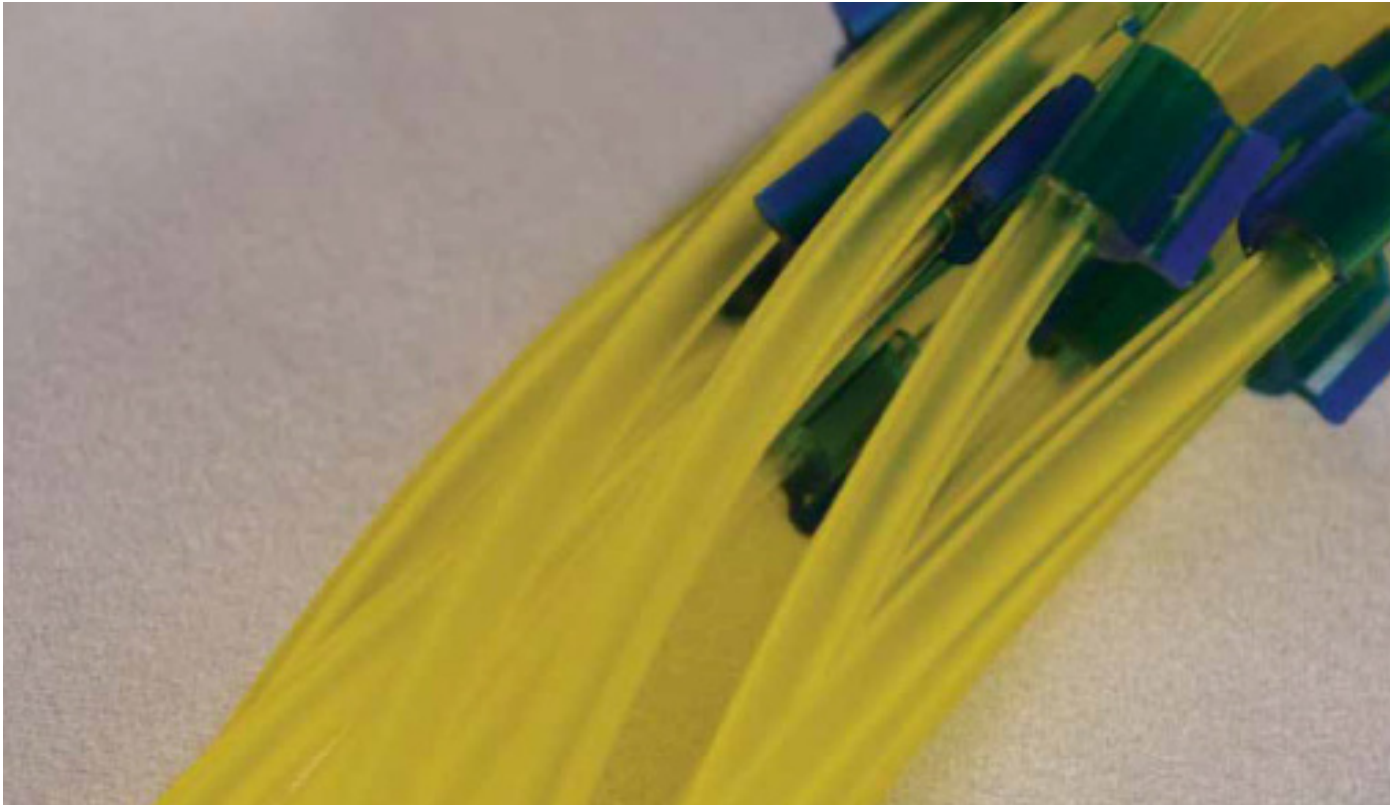
64 Shore A

Elongation at Break:

435%

Certification:

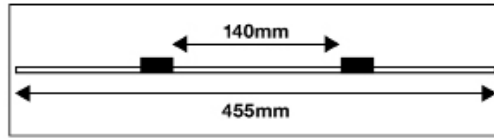
Meets USP Class VI and BS2463
Including Low Zinc Content & Low UV Absorption
US Pharmacopoeia Tested and Certified































































PVC solva pump tubes

116-0533-XX Series PVC Solva 2 Bridge Pump Tubes

Available in packs of 12 tubes



For Flared Tubing place an "F" in front of the 116-0533-XX series part number. For example: F116-0533-11

| Metric I.D. | Description | Part No.* | Color Code | |
|--|---------------|---------------|---|---|
| 0.13mm | Orange/Black | 116-0533-01 |  |  |
| 0.19mm | Orange/Red | 116-0533-02 |  |  |
| 0.25mm | Orange/Blue | 116-0533-03 |  |  |
| 0.28mm | White/Blue | |  |  |
| 0.31mm | Red/Blue | |  |  |
| 0.33mm | Brown/Blue | |  |  |
| 0.36mm | Brown/Black | |  |  |
| 0.38mm | Orange/Green | 116-0533-04 |  |  |
| 0.44mm | Green/Yellow | 116-0533-44 |  |  |
| 0.51mm | Orange/Yellow | 116-0533-05 |  |  |
| 0.57mm | White/Yellow | 116-0533-57 |  |  |
| 0.64mm | Orange/White | 116-0533-06 |  |  |
| 0.76mm | Black/Black | 116-0533-07 |  |  |
| 0.89mm | Orange/Orange | 116-0533-08 |  |  |
| 0.95mm | White/Black | |  |  |
| 1.02mm | White/White | 116-0533-09 |  |  |
| 1.09mm | White/Red | 116-0533-109* |  |  |
| 1.14mm | Red/Red | 116-0533-10 |  |  |
| 1.22mm | Red/Grey | |  |  |
| 1.30mm | Grey/Grey | 116-0533-11 |  |  |
| 1.42mm | Yellow/Yellow | 116-0533-12 |  |  |
| 1.52mm | Yellow/Blue | 116-0533-19 |  |  |
| 1.65mm | Blue/Blue | 116-0533-13 |  |  |
| 1.75mm | Blue/Green | SC9919 |  |  |
| 1.85mm | Green/Green | 116-0533-14 |  |  |
| 2.06mm | Purple/Purple | 116-0533-15 |  |  |
| 2.29mm | Purple/Black | 116-0533-16 |  |  |
| 2.54mm | Purple/Orange | 116-0533-17 |  |  |
| 2.79mm | Purple/White | 116-0533-18 |  |  |
| 3.18mm | Black/White | 116-0533-21 |  |  |
| * Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in an minimum order requirement, longer lead times or may not be available. | | | | |

PVC solva pump tubes

SC0XXX Series PVC Solva 3 Bridge Pump Tubes

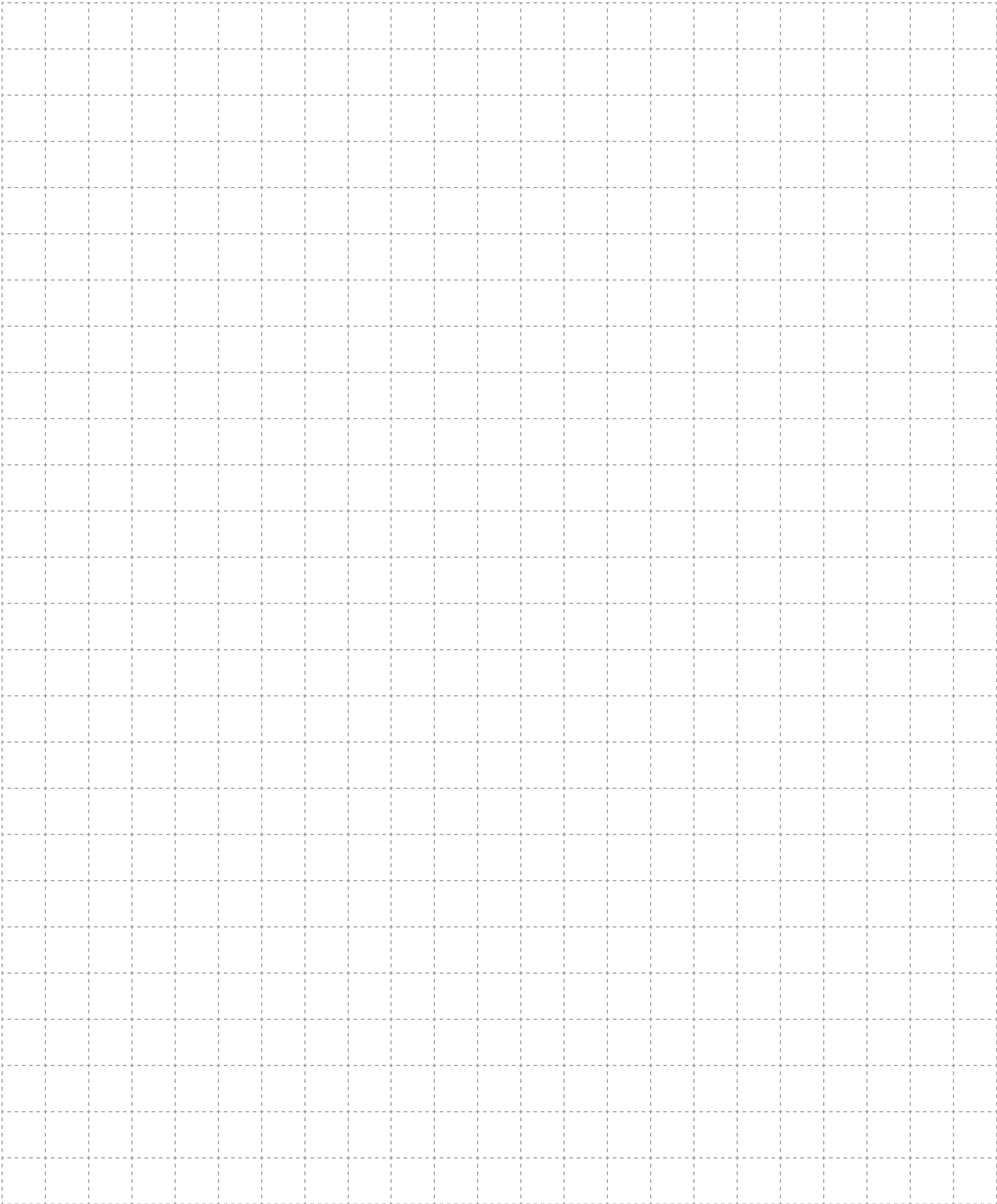
Available in packs of 12 tubes



For Flared Tubing place an "F" in front of the SC00XX series part number. For example: FSC0097

| Metric I.D. | Description | Part No.* | Color Code | | |
|---|----------------------|-----------|------------|--|--|
| 0.13mm | Orange/Black/Orange | SC0189S* | | | |
| 0.19mm | Orange/Red/Orange | | | | |
| 0.25mm | Orange/Blue/Orange | SC0286 | | | |
| 0.28mm | White/Blue/White | | | | |
| 0.31mm | Red/Blue/Red | | | | |
| 0.33mm | Brown/Blue/Brown | | | | |
| 0.36mm | Brown/Black/Brown | | | | |
| 0.38mm | Orange/Green/Orange | SC0287 | | | |
| 0.44mm | Green/Yellow/Green | | | | |
| 0.51mm | Orange/Yellow/Orange | SC0288 | | | |
| 0.57mm | White/Yellow/White | | | | |
| 0.64mm | Orange/White/Orange | SC0289 | | | |
| 0.76mm | Black/Black/Black | SC0290 | | | |
| 0.89mm | Orange/Orange/Orange | SC0291 | | | |
| 0.95mm | White/Black/White | | | | |
| 1.02mm | White/White/White | SC0292 | | | |
| 1.09mm | White/Red/White | | | | |
| 1.14mm | Red/Red/Red | SC0293 | | | |
| 1.22mm | Red/Grey/Red | | | | |
| 1.30mm | Grey/Grey/Grey | SC0294 | | | |
| 1.42mm | Yellow/Yellow/Yellow | SC0295 | | | |
| 1.52mm | Yellow/Blue/Yellow | SC0296 | | | |
| 1.65mm | Blue/Blue/Blue | SC0297 | | | |
| 1.75mm | Blue/Green/Blue | | | | |
| 1.85mm | Green/Green/Green | SC0298 | | | |
| 2.06mm | Purple/Purple/Purple | SC0299 | | | |
| 2.29mm | Purple/Black/Purple | SC0300 | | | |
| 2.54mm | Purple/Orange/Purple | SC0301 | | | |
| 2.79mm | Purple/White/Purple | SC0302 | | | |
| 3.18mm | Black/White/Black | 4062-6125 | | | |
| * Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in a minimum order requirement, longer lead times or may not be available. | | | | | |

Notes



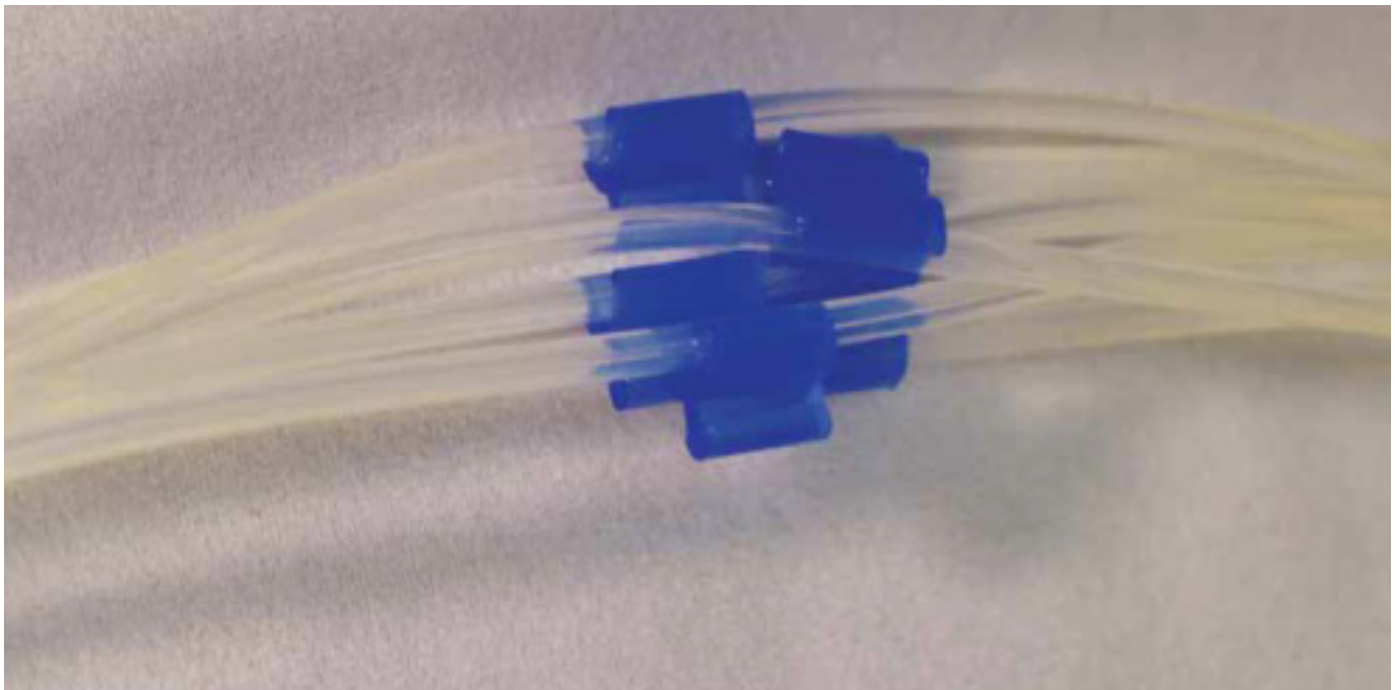
Silicone pump tubes

Silicone is a synthetic polymer and is produced by a crosslinked polymer reinforced with silica. Further cross-linking takes place by heating with a particular catalyst (i.e. peroxide), to produce the required properties. Silicone has good environmental resistance to heat, cold, ozone, UV, humidity and abrasion. It has outstanding heat resistance, to over 230°C. Electrical resistance is also excellent, and Silicone is frequently used

in high voltage/high current applications. However, Silicone can be modified with additives to make it electrically conductive. Silicone does not support microbiological growth, which makes it very useful in pharmaceutical and medical environments. Silicone is a high performance polymer and necessarily more expensive because of its properties. It is made in lower quantities and requires expensive equipment for the compound and the final product's

manufacture. Silicone is highly permeable to gas, which can be a useful property. Silicone is not classed as hazardous waste, and therefore can be disposed of according to local regulations. Flared ends is available upon request. Platinum cured Silicone in the same sizes as the standard Silicone is also available upon request and is a Special Ordered item.

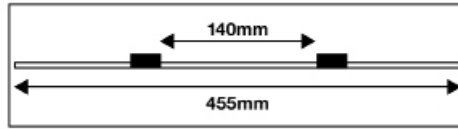
| | | |
|--|---|--|
| Product: Medical Grade Silicone, Peroxide Cured | Flexible, Kink Resistant, Odorless Non-Toxic, Low Compression Set | Elongation at Break: 450% - 540% |
| Full Name: Silicone | Temperature Range -50°C to +230°C (-58°F to +446°F) | Tear Strength: 34Kn/m |
| Applications: Medical, Pharmaceutical & Industrial Users, High Strength for use on Peristaltic Pumps | Sterilizations: Ethylene Oxide Gamma Irradiation Autoclave (Unbridged Tubing) | Certification: Meets USP Class VI US Pharmacopoeia Tested and Certified |
| Characteristics: Good Chemical Resistance Wide Operating Temperature Range Excellent Pumping Characteristics | Hardness: 60 Shore A | |































































Silicone pump tubes

116-0497-XX Series 2 Bridge Silicone Pump Tubes

Available in packs of 12 tubes



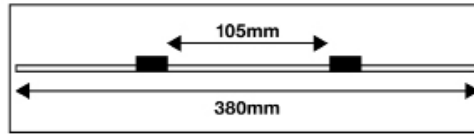
For Flared Tubing place an "F" in front of the 116-0497-XX series part number. For example: F116-0497-12

| Metric I.D. | Description | Part No.* | Color Code | |
|--|---------------|-------------|---|---|
| 0.13mm | Orange/Black | 116-0497-01 |  |  |
| 0.19mm | Orange/Red | |  |  |
| 0.25mm | Orange/Blue | 116-0497-04 |  |  |
| 0.28mm | White/Blue | |  |  |
| 0.31mm | Red/Blue | |  |  |
| 0.33mm | Brown/Blue | |  |  |
| 0.36mm | Brown/Black | |  |  |
| 0.38mm | Orange/Green | 116-0497-05 |  |  |
| 0.44mm | Green/Yellow | |  |  |
| 0.51mm | Orange/Yellow | 116-0497-06 |  |  |
| 0.57mm | White/Yellow | |  |  |
| 0.64mm | Orange/White | 116-0497-07 |  |  |
| 0.76mm | Black/Black | 116-0497-08 |  |  |
| 0.89mm | Orange/Orange | 116-0497-09 |  |  |
| 0.95mm | White/Black | |  |  |
| 1.02mm | White/White | 116-0497-10 |  |  |
| 1.09mm | White/Red | |  |  |
| 1.14mm | Red/Red | 116-0497-11 |  |  |
| 1.22mm | Red/Grey | |  |  |
| 1.30mm | Grey/Grey | 116-0497-12 |  |  |
| 1.42mm | Yellow/Yellow | 116-0497-13 |  |  |
| 1.52mm | Yellow/Blue | 116-0497-14 |  |  |
| 1.65mm | Blue/Blue | 116-0497-15 |  |  |
| 1.75mm | Blue/Green | |  |  |
| 1.85mm | Green/Green | 116-0497-16 |  |  |
| 2.06mm | Purple/Purple | 116-0497-17 |  |  |
| 2.29mm | Purple/Black | 116-0497-18 |  |  |
| 2.54mm | Purple/Orange | 116-0497-19 |  |  |
| 2.79mm | Purple/White | 116-0497-20 |  |  |
| 3.18mm | Black/White | 116-0497-21 |  |  |
| * Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in an minimum order requirement, longer lead times or may not be available. | | | | |

Silicone pump tubes

116-0581-XX Series 2 Bridge Silicone Pump Tubes

Available in packs of 12 tubes



For Flared Tubing place an "F" in front of the 116-0581-XX series part number. For example: F116-0581-10

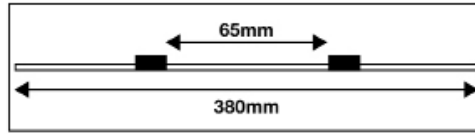
| Metric I.D. | Description | Part No.* | Color Code | |
|-------------|---------------|-------------|------------|--|
| 0.13mm | Orange/Black | | | |
| 0.19mm | Orange/Red | | | |
| 0.25mm | Orange/Blue | | | |
| 0.28mm | White/Blue | | | |
| 0.31mm | Red/Blue | | | |
| 0.33mm | Brown/Blue | 116-0581-14 | | |
| 0.36mm | Brown/Black | 116-0581-15 | | |
| 0.38mm | Orange/Green | 116-0581-11 | | |
| 0.44mm | Green/Yellow | | | |
| 0.51mm | Orange/Yellow | 116-0581-12 | | |
| 0.57mm | White/Yellow | | | |
| 0.64mm | Orange/White | 116-0581-04 | | |
| 0.76mm | Black/Black | 116-0581-13 | | |
| 0.89mm | Orange/Orange | 116-0581-05 | | |
| 0.95mm | White/Black | | | |
| 1.02mm | White/White | | | |
| 1.09mm | White/Red | | | |
| 1.14mm | Red/Red | 116-0581-02 | | |
| 1.22mm | Red/Grey | | | |
| 1.30mm | Grey/Grey | 116-0581-03 | | |
| 1.42mm | Yellow/Yellow | 116-0581-06 | | |
| 1.52mm | Yellow/Blue | | | |
| 1.65mm | Blue/Blue | 116-0581-08 | | |
| 1.75mm | Blue/Green | | | |
| 1.85mm | Green/Green | 116-0581-08 | | |
| 2.06mm | Purple/Purple | | | |
| 2.29mm | Purple/Black | | | |
| 2.54mm | Purple/Orange | 116-0581-09 | | |
| 2.79mm | Purple/White | 116-0581-10 | | |
| 3.18mm | Black/White | | | |

* Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in an minimum order requirement, longer lead times or may not be available.

Silicone pump tubes

116-0559-XX Series 2 Bridge Silicone Pump Tubes

Available in packs of 12 tubes



For Flared Tubing place an "F" in front of the 116-0559-XX series part number. For example: F116-0559-14

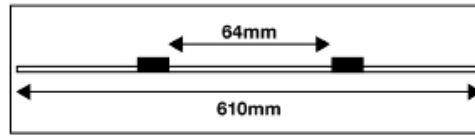
| Metric I.D. | Description | Part No.* | Color Code | |
|-------------|---------------|--------------|------------|--|
| 0.13mm | Orange/Black | | | |
| 0.19mm | Orange/Red | | | |
| 0.25mm | Orange/Blue | 116-0559-01 | | |
| 0.28mm | White/Blue | 116-0559-05* | | |
| 0.31mm | Red/Blue | | | |
| 0.33mm | Brown/Blue | 116-0559-14* | | |
| 0.36mm | Brown/Black | 116-0559-15* | | |
| 0.38mm | Orange/Green | | | |
| 0.44mm | Green/Yellow | | | |
| 0.51mm | Orange/Yellow | 116-0559-01* | | |
| 0.57mm | White/Yellow | | | |
| 0.64mm | Orange/White | 116-0559-06* | | |
| 0.76mm | Black/Black | | | |
| 0.89mm | Orange/Orange | | | |
| 0.95mm | White/Black | | | |
| 1.02mm | White/White | | | |
| 1.09mm | White/Red | | | |
| 1.14mm | Red/Red | | | |
| 1.22mm | Red/Grey | | | |
| 1.30mm | Grey/Grey | | | |
| 1.42mm | Yellow/Yellow | | | |
| 1.52mm | Yellow/Blue | | | |
| 1.65mm | Blue/Blue | | | |
| 1.75mm | Blue/Green | | | |
| 1.85mm | Green/Green | | | |
| 2.06mm | Purple/Purple | | | |
| 2.29mm | Purple/Black | | | |
| 2.54mm | Purple/Orange | | | |
| 2.79mm | Purple/White | 116-0559-16* | | |
| 3.18mm | Black/White | | | |

* Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in an minimum order requirement, longer lead times or may not be available.

Silicone pump tubes

188-0132-XX Series 2 Bridge Silicone Pump Tubes

Available in packs of 12 tubes



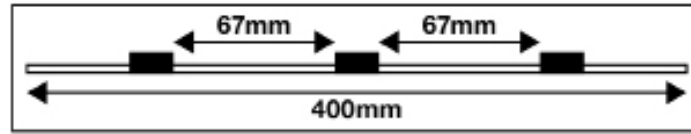
For Flared Tubing place an "F" in front of the 188-0132-XX series part number. For example: F188-0132-07

| Metric I.D. | Description | Part No.* | Color Code | |
|--|---------------|-------------|------------|--|
| 0.13mm | Orange/Black | | | |
| 0.19mm | Orange/Red | 188-0132-02 | | |
| 0.25mm | Orange/Blue | 188-0132-03 | | |
| 0.28mm | White/Blue | | | |
| 0.31mm | Red/Blue | | | |
| 0.33mm | Brown/Blue | | | |
| 0.36mm | Brown/Black | | | |
| 0.38mm | Orange/Green | | | |
| 0.44mm | Green/Yellow | | | |
| 0.51mm | Orange/Yellow | | | |
| 0.57mm | White/Yellow | | | |
| 0.64mm | Orange/White | 188-0132-06 | | |
| 0.76mm | Black/Black | 188-0132-07 | | |
| 0.89mm | Orange/Orange | 188-0132-08 | | |
| 0.95mm | White/Black | | | |
| 1.02mm | White/White | 188-0132-09 | | |
| 1.09mm | White/Red | | | |
| 1.14mm | Red/Red | 188-0132-10 | | |
| 1.22mm | Red/Grey | | | |
| 1.30mm | Grey/Grey | 188-0132-11 | | |
| 1.42mm | Yellow/Yellow | 188-0132-12 | | |
| 1.52mm | Yellow/Blue | 188-0132-19 | | |
| 1.65mm | Blue/Blue | 188-0132-13 | | |
| 1.75mm | Blue/Green | | | |
| 1.85mm | Green/Green | 188-0132-14 | | |
| 2.06mm | Purple/Purple | 188-0132-15 | | |
| 2.29mm | Purple/Black | 188-0132-16 | | |
| 2.54mm | Purple/Orange | | | |
| 2.79mm | Purple/White | | | |
| 3.18mm | Black/White | | | |
| * Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in an minimum order requirement, longer lead times or may not be available. | | | | |

Silicone pump tubes

SC0XXX Series 3 Bridge Silicone Pump Tubes

Available in packs of 12 tubes



For Flared Tubing place an "F" in front of the FSC0XXX series part number. For example: FSC0110

| Metric I.D. | Description | Part No.* | Color Code | | |
|--|----------------------|-----------|------------|--|--|
| 0.13mm | Orange/Black/Orange | | | | |
| 0.19mm | Orange/Red/Orange | | | | |
| 0.25mm | Orange/Blue/Orange | SC0497-04 | | | |
| 0.28mm | White/Blue/White | | | | |
| 0.31mm | Red/Blue/Red | | | | |
| 0.33mm | Brown/Blue/Brown | | | | |
| 0.36mm | Brown/Black/Brown | | | | |
| 0.38mm | Orange/Green/Orange | | | | |
| 0.44mm | Green/Yellow/Green | | | | |
| 0.51mm | Orange/Yellow/Orange | SC0497-06 | | | |
| 0.57mm | White/Yellow/White | | | | |
| 0.64mm | Orange/White/Orange | SC0106 | | | |
| 0.76mm | Black/Black/Black | SC0107 | | | |
| 0.89mm | Orange/Orange/Orange | SC0108 | | | |
| 0.95mm | White/Black/White | | | | |
| 1.02mm | White/White/White | SC109 | | | |
| 1.09mm | White/Red/White | | | | |
| 1.14mm | Red/Red/Red | SC0110 | | | |
| 1.22mm | Red/Grey/Red | | | | |
| 1.30mm | Grey/Grey/Grey | SC0111 | | | |
| 1.42mm | Yellow/Yellow/Yellow | SC0112 | | | |
| 1.52mm | Yellow/Blue/Yellow | SC0113 | | | |
| 1.65mm | Blue/Blue/Blue | SC0114 | | | |
| 1.75mm | Blue/Green/Blue | | | | |
| 1.85mm | Green/Green/Green | SC0115 | | | |
| 2.06mm | Purple/Purple/Purple | SC0116 | | | |
| 2.29mm | Purple/Black/Purple | SC0117 | | | |
| 2.54mm | Purple/Orange/Purple | SC0118 | | | |
| 2.79mm | Purple/White/Purple | SC0119 | | | |
| 3.18mm | Black/White/Black | | | | |
| * Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in an minimum order requirement, longer lead times or may not be available. | | | | | |

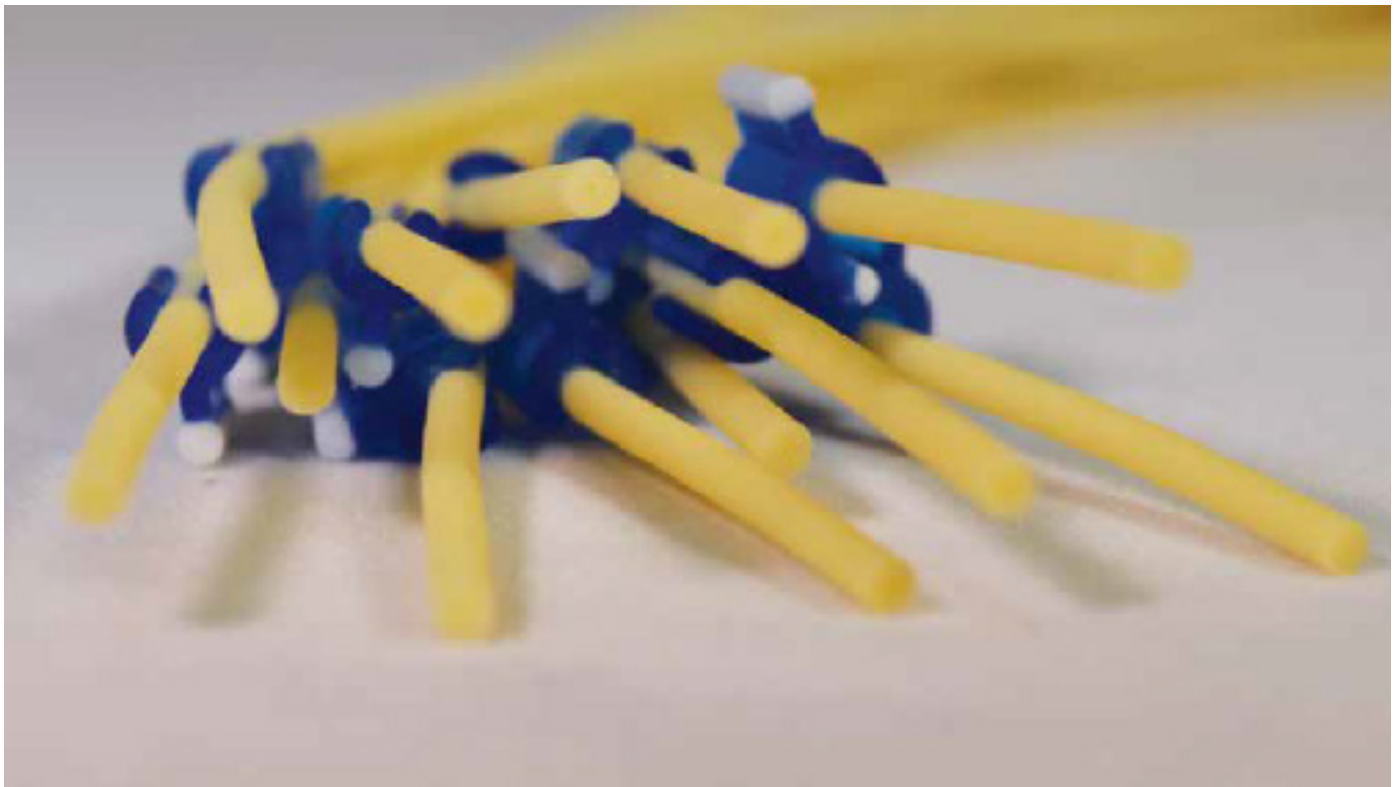
Santoprene® pump tubes

Santoprene® is a proprietary type of thermoplastic rubber elastomer, manufactured by Advanced Elastomer Systems L.P. Santoprene® is a polyolefinic material, produced by a proprietary dynamic vulcanization which produces rubber particles dispersed throughout a continuous matrix of thermoplastic.. This material combines the performance

characteristics of vulcanized rubber and the processing ease of thermoplastics. Santoprene® has properties that make it very tolerant of temperatures, chemicals and environmental abrasion. Santoprene® is available in a range of hardnesses. The most popular hardness grade for small-bore peristaltic pump use is 64 Shore A. This gives the best combination of easy

occlusion and good material recovery for effective long-life pumping. Other grades are available for alternative applications. Medical grades of Santoprene® have a DMF file lodged with the US FDA, and are approved to USP Class.

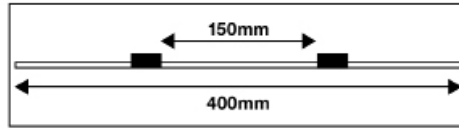
| | | |
|--|---|--|
| Product: Medical Grade Thermoplastic Rubber | Temperature Range -50°C to +135°C (-58°F to +275°F) | Certification: Meets USP Class VI US Pharmacopoeia Approved and Certified FDA Approved DMF No17690 Santoprene® is a Registered Trade Mark of Advanced Elastomer Systems, L.P. |
| Full Name: Santoprene® | Sterilizations: Gamma Irradiation Autoclave (Unbridged Tubing) | |
| Applications: Medical, Pharmaceutical, Laboratory & Industrial Users For use with Peristaltic Pumps | Hardness: 60 Shore A | |
| Characteristics: Good Chemical Resistance, Flexible and Strong Good Handling Characteristics Abrasion Resistant, Non-toxic Excellent Pumping Life | Elongation at Break: 440% Tear Strength: 25Kn/m | |



Santoprene® pump tubes

SC03XX Series 2 Bridge Santoprene® Pump Tubes

Available in packs of 12 tubes



For Flared Tubing place an "F" in front of the SC0325 series part number. For example: FSC0327

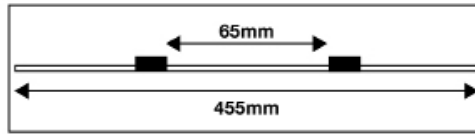
| Metric I.D. | Description | Part No.* | Color Code | |
|-------------|---------------|-------------|------------|--|
| 0.13mm | Orange/Black | SC0301SAN* | | |
| 0.19mm | Orange/Red | | | |
| 0.25mm | Orange/Blue | SC0320* | | |
| 0.28mm | White/Blue | | | |
| 0.31mm | Red/Blue | | | |
| 0.33mm | Brown/Blue | | | |
| 0.36mm | Brown/Black | | | |
| 0.38mm | Orange/Green | SC0321 | | |
| 0.44mm | Green/Yellow | | | |
| 0.51mm | Orange/Yellow | SC3222* | | |
| 0.57mm | White/Yellow | | | |
| 0.64mm | Orange/White | SC0323 | | |
| 0.76mm | Black/Black | SC0324 | | |
| 0.89mm | Orange/Orange | SC0325* | | |
| 0.95mm | White/Black | | | |
| 1.02mm | White/White | SC0326 | | |
| 1.09mm | White/Red | | | |
| 1.14mm | Red/Red | SC0327 | | |
| 1.22mm | Red/Grey | | | |
| 1.30mm | Grey/Grey | | | |
| 1.42mm | Yellow/Yellow | SC0328 | | |
| 1.52mm | Yellow/Blue | SC0329 | | |
| 1.65mm | Blue/Blue | SC0330 | | |
| 1.75mm | Blue/Green | | | |
| 1.85mm | Green/Green | | | |
| 2.06mm | Purple/Purple | SC0332 | | |
| 2.29mm | Purple/Black | SC0333 | | |
| 2.54mm | Purple/Orange | SC0334 | | |
| 2.79mm | Purple/White | SC0335 | | |
| 3.18mm | Black/White | SAN-318-01* | | |

* Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in an minimum order requirement, longer lead times or may not be available.

Santoprene® pump tubes

178+0539-XX Series 2 Bridge Santoprene® Pump Tubes

Available in packs of 12 tubes



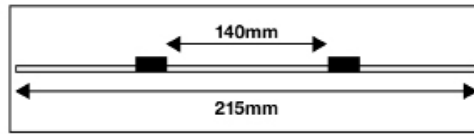
For Flared Tubing place an "F" in front of the 178+0539-XX series part number. For example: F178+0539-16

| Metric I.D. | Description | Part No.* | Color Code | |
|--|---------------|-------------|------------|--|
| 0.13mm | Orange/Black | | | |
| 0.19mm | Orange/Red | | | |
| 0.25mm | Orange/Blue | 178+0539-03 | | |
| 0.28mm | White/Blue | | | |
| 0.31mm | Red/Blue | | | |
| 0.33mm | Brown/Blue | | | |
| 0.36mm | Brown/Black | | | |
| 0.38mm | Orange/Green | 178+0539-04 | | |
| 0.44mm | Green/Yellow | | | |
| 0.51mm | Orange/Yellow | 178+0539-05 | | |
| 0.57mm | White/Yellow | | | |
| 0.64mm | Orange/White | 178+0539-06 | | |
| 0.76mm | Black/Black | 178+0539-07 | | |
| 0.89mm | Orange/Orange | 178+0539-08 | | |
| 0.95mm | White/Black | | | |
| 1.02mm | White/White | 178+0539-09 | | |
| 1.09mm | White/Red | | | |
| 1.14mm | Red/Red | 178+0539-10 | | |
| 1.22mm | Red/Grey | | | |
| 1.30mm | Grey/Grey | 178+0539-11 | | |
| 1.42mm | Yellow/Yellow | 178+0539-12 | | |
| 1.52mm | Yellow/Blue | 178+0539-19 | | |
| 1.65mm | Blue/Blue | 178+0539-13 | | |
| 1.75mm | Blue/Green | | | |
| 1.85mm | Green/Green | 178+0539-14 | | |
| 2.06mm | Purple/Purple | 178+0539-15 | | |
| 2.29mm | Purple/Black | 178+0539-16 | | |
| 2.54mm | Purple/Orange | 178+0539-17 | | |
| 2.79mm | Purple/White | | | |
| 3.18mm | Black/White | | | |
| * Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in an minimum order requirement, longer lead times or may not be available. | | | | |

Santoprene® pump tubes

116-0539-XX Series 2 Bridge Santoprene® Pump Tubes

Available in packs of 12 tubes



For Flared Tubing place an "F" in front of the 116-0539-XX series part number. For example: F116-0539-10

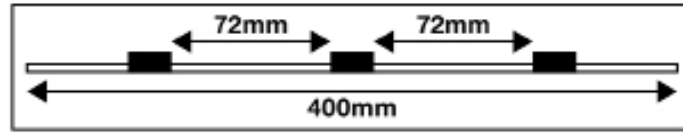
| Metric I.D. | Description | Part No.* | Color Code | |
|-------------|---------------|-------------|------------|--|
| 0.13mm | Orange/Black | 116-0539-01 | | |
| 0.19mm | Orange/Red | | | |
| 0.25mm | Orange/Blue | 116-0539-03 | | |
| 0.28mm | White/Blue | | | |
| 0.31mm | Red/Blue | | | |
| 0.33mm | Brown/Blue | | | |
| 0.36mm | Brown/Black | | | |
| 0.38mm | Orange/Green | 116-0539-04 | | |
| 0.44mm | Green/Yellow | | | |
| 0.51mm | Orange/Yellow | 116-0539-05 | | |
| 0.57mm | White/Yellow | | | |
| 0.64mm | Orange/White | | | |
| 0.76mm | Black/Black | 116-0539-07 | | |
| 0.89mm | Orange/Orange | 116-0539-08 | | |
| 0.95mm | White/Black | | | |
| 1.02mm | White/White | | | |
| 1.09mm | White/Red | | | |
| 1.14mm | Red/Red | 116-0539-10 | | |
| 1.22mm | Red/Grey | | | |
| 1.30mm | Grey/Grey | 116-0539-11 | | |
| 1.42mm | Yellow/Yellow | 116-0539-12 | | |
| 1.52mm | Yellow/Blue | 116-0539-19 | | |
| 1.65mm | Blue/Blue | 116-0539-13 | | |
| 1.75mm | Blue/Green | | | |
| 1.85mm | Green/Green | 116-0539-14 | | |
| 2.06mm | Purple/Purple | 116-0539-15 | | |
| 2.29mm | Purple/Black | | | |
| 2.54mm | Purple/Orange | 116-0539-17 | | |
| 2.79mm | Purple/White | | | |
| 3.18mm | Black/White | | | |

* Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in an minimum order requirement, longer lead times or may not be available.

Santoprene® pump tubes

SC03XX Series 3 Bridge Santoprene® Pump Tubes

Available in packs of 12 tubes



For Flared Tubing place an "F" in front of the FSC03XX series part number. For example: FSC0311

| Metric I.D. | Description | Part No.* | Color Code | | |
|---|----------------------|-----------|------------|--|--|
| 0.13mm | Orange/Black/Orange | | | | |
| 0.19mm | Orange/Red/Orange | | | | |
| 0.25mm | Orange/Blue/Orange | SC0303 | | | |
| 0.28mm | White/Blue/White | | | | |
| 0.31mm | Red/Blue/Red | | | | |
| 0.33mm | Brown/Blue/Brown | | | | |
| 0.36mm | Brown/Black/Brown | | | | |
| 0.38mm | Orange/Green/Orange | SC0304 | | | |
| 0.44mm | Green/Yellow/Green | | | | |
| 0.51mm | Orange/Yellow/Orange | SC0305 | | | |
| 0.57mm | White/Yellow/White | | | | |
| 0.64mm | Orange/White/Orange | SC0306 | | | |
| 0.76mm | Black/Black/Black | SC0307 | | | |
| 0.89mm | Orange/Orange/Orange | SC0308 | | | |
| 0.95mm | White/Black/White | | | | |
| 1.02mm | White/White/White | SC0309 | | | |
| 1.09mm | White/Red/White | | | | |
| 1.14mm | Red/Red/Red | SC0310 | | | |
| 1.22mm | Red/Grey/Red | | | | |
| 1.30mm | Grey/Grey/Grey | SC0311 | | | |
| 1.42mm | Yellow/Yellow/Yellow | SC0312 | | | |
| 1.52mm | Yellow/Blue/Yellow | SC0313 | | | |
| 1.65mm | Blue/Blue/Blue | SC0314 | | | |
| 1.75mm | Blue/Green/Blue | | | | |
| 1.85mm | Green/Green/Green | SC0315 | | | |
| 2.06mm | Purple/Purple/Purple | SC0316 | | | |
| 2.29mm | Purple/Black/Purple | SC0317 | | | |
| 2.54mm | Purple/Orange/Purple | SC0318 | | | |
| 2.79mm | Purple/White/Purple | SC3019 | | | |
| 3.18mm | Black/White/Black | SC0337 | | | |
| * Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in a minimum order requirement, longer lead times or may not be available. | | | | | |

Pharmaprene® pump tubes

Pharmaprene is designed as a replacement for Santoprene® which is being discontinued. It has many similar visible properties to Santoprene®. Characteristics include very good chemical resistance to alcohols, ozone, aqueous systems etc. It also showcases good flow consistency for peristaltic pump applications. It is ideal for under vacuum conditions. Furthermore

it is anti-aging and tough tubing with a wide temperature range. It is available free of latex and is fully RoHS compliant and contains no Substances of Very High Concern (SVHC's) as classified by the REACH environmental regulations.

Product:
Pharmaprene® - Phthalate Free, Flexible TPE Medical Extrusion Compound

Full Name:
Pharmaprene®

Applications:
Peristaltic Pump, Laboratory and Medical
Directly replaces Santoprene®

Characteristics:
Very good chemical resistance
Excellent pump life
Anti-aging and tough

Temperature Range
50°C to +135°C (-58°F to +275°F)

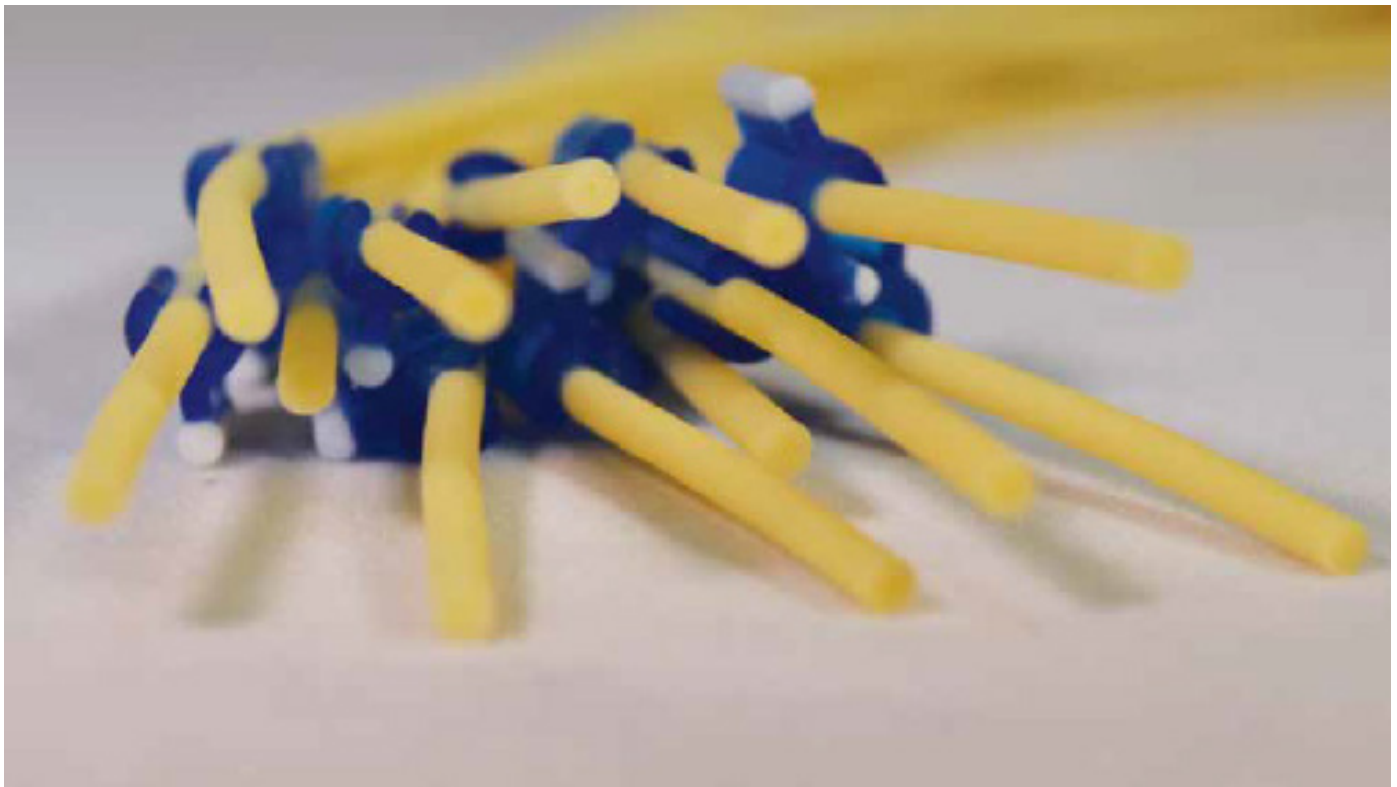
Sterilizations:
Gamma Irradiation
ETO (Ethylene Oxide Gas)
Autoclave (unbridged tubing)

Hardness:
64 Shore A

Elongation at Break:
440%

Certification:
US Pharmacopoeia Biological Test for Plastics Class IV
Part XXIII
FDA Drug Master File 17690

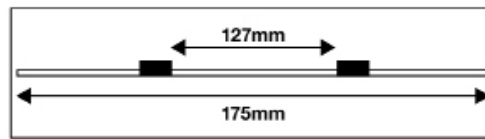
EU and China RoHS compliant, REACH Compliant, no SVHCs































































Pharmaprene® pump tubes

PSC03XX Series 2 Bridge Pharmaprene® Pump Tubes

Available in packs of 12 tubes



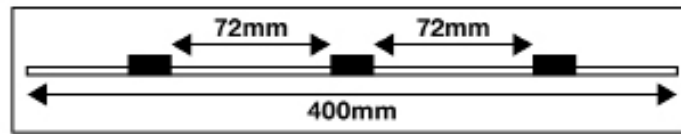
For Flared Tubing place an "F" in front of the PSC03XX series part number. For example: FPSC0326

| Metric I.D. | Description | Part No.* | Color Code | |
|---|---------------|-----------|---|---|
| 0.13mm | Orange/Black | |  |  |
| 0.19mm | Orange/Red | |  |  |
| 0.25mm | Orange/Blue | PSC0320 |  |  |
| 0.28mm | White/Blue | |  |  |
| 0.31mm | Red/Blue | |  |  |
| 0.33mm | Brown/Blue | |  |  |
| 0.36mm | Brown/Black | |  |  |
| 0.38mm | Orange/Green | PSC0321 |  |  |
| 0.44mm | Green/Yellow | |  |  |
| 0.51mm | Orange/Yellow | PSC0322 |  |  |
| 0.57mm | White/Yellow | |  |  |
| 0.64mm | Orange/White | PSC0323 |  |  |
| 0.76mm | Black/Black | PSC0324 |  |  |
| 0.89mm | Orange/Orange | PSC0325 |  |  |
| 0.95mm | White/Black | |  |  |
| 1.02mm | White/White | PSC0326 |  |  |
| 1.09mm | White/Red | |  |  |
| 1.14mm | Red/Red | PSC0327 |  |  |
| 1.22mm | Red/Grey | |  |  |
| 1.30mm | Grey/Grey | PSC0328 |  |  |
| 1.42mm | Yellow/Yellow | PSC0329 |  |  |
| 1.52mm | Yellow/Blue | PSC0330 |  |  |
| 1.65mm | Blue/Blue | PSC0331 |  |  |
| 1.75mm | Blue/Green | |  |  |
| 1.85mm | Green/Green | PSC0332 |  |  |
| 2.06mm | Purple/Purple | PSC0333 |  |  |
| 2.29mm | Purple/Black | PSC0334 |  |  |
| 2.54mm | Purple/Orange | PSC0335 |  |  |
| 2.79mm | Purple/White | PSC0336 |  |  |
| 3.18mm | Black/White | |  |  |
| * Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in a minimum order requirement, longer lead times or may not be available. | | | | |

Pharmaprene® pump tubes

PSC03XX Series 3 Bridge Pharmaprene® Pump Tubes

Available in packs of 12 tubes



For Flared Tubing place an "F" in front of the FSC03XX series part number. For example: FSC0311

| Metric I.D. | Description | Part No.* | Color Code | | |
|---|----------------------|-----------|------------|--|--|
| 0.13mm | Orange/Black/Orange | | | | |
| 0.19mm | Orange/Red/Orange | | | | |
| 0.25mm | Orange/Blue/Orange | PSC0303 | | | |
| 0.28mm | White/Blue/White | | | | |
| 0.31mm | Red/Blue/Red | | | | |
| 0.33mm | Brown/Blue/Brown | | | | |
| 0.36mm | Brown/Black/Brown | | | | |
| 0.38mm | Orange/Green/Orange | PSC0304 | | | |
| 0.44mm | Green/Yellow/Green | | | | |
| 0.51mm | Orange/Yellow/Orange | PSC0305 | | | |
| 0.57mm | White/Yellow/White | | | | |
| 0.64mm | Orange/White/Orange | PSC0306 | | | |
| 0.76mm | Black/Black/Black | PSC0307 | | | |
| 0.89mm | Orange/Orange/Orange | PSC0308 | | | |
| 0.95mm | White/Black/White | | | | |
| 1.02mm | White/White/White | PSC0309 | | | |
| 1.09mm | White/Red/White | | | | |
| 1.14mm | Red/Red/Red | PSC0310 | | | |
| 1.22mm | Red/Grey/Red | | | | |
| 1.30mm | Grey/Grey/Grey | PSC0311 | | | |
| 1.42mm | Yellow/Yellow/Yellow | PSC0312 | | | |
| 1.52mm | Yellow/Blue/Yellow | PSC0313 | | | |
| 1.65mm | Blue/Blue/Blue | PSC0314 | | | |
| 1.75mm | Blue/Green/Blue | | | | |
| 1.85mm | Green/Green/Green | PSC0315 | | | |
| 2.06mm | Purple/Purple/Purple | PSC0316 | | | |
| 2.29mm | Purple/Black/Purple | PSC0317 | | | |
| 2.54mm | Purple/Orange/Purple | PSC0318 | | | |
| 2.79mm | Purple/White/Purple | PSC0319 | | | |
| 3.18mm | Black/White/Black | PSC0337 | | | |
| * Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in a minimum order requirement, longer lead times or may not be available. | | | | | |

Notes

A large grid of dashed lines, intended for taking notes. The grid consists of 20 columns and 30 rows of small squares.

Viton® pump tubes

Viton® is a proprietary type of fluoroelastomer rubber, manufactured by DuPont Industries. Viton® has one of the broadest ranges of chemical resistance in industry. We use Viton® B grade, which is regarded as an ideal type for peristaltic pump use. This combines excellent flexibility with high chemical resistance and anti-aging properties over a wide

range of environmental conditions. Viton® B is specified as a terpolymer of vinylidene fluoride, hexafluoropropylene and tetrafluoroethylene and has a higher fluid resistance than Viton® A. Viton® B is FDA approved where compliance is required.

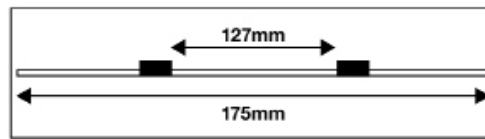
| | |
|--|--|
| Product: DuPont Viton® B Fluoroelastomer | Excellent Anti-Aging Properties Environmentally Tough |
| Full Name: Viton® | Temperature Range -20°C to +200°C (-4°F to +392°F) |
| Applications: Industrial & Laboratory Ideal for Fuel and Oil Lines Aromatic Oils | Sterilizations: Not Recommended |
| Characteristics: Exceptional Chemical Resistance Excellent Flexibility Wide Temperature Range Good Peristaltic Pumping Characteristics | Hardness: 60 Shore A 70 on 6mm ID and above |
| | Elongation at Break: 150% - 250% |



Viton® pump tubes

116-0651-XX Series 2 Bridge Viton® Pump Tubes

Available in packs of 12 tubes



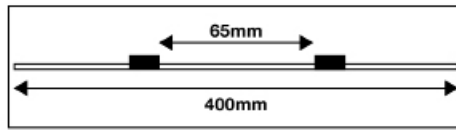
For Flared Tubing place an "F" in front of the 116-0651-XX series part number. For example: F116-0651-13

| Metric I.D. | Description | Part No.* | Color Code | |
|---|---------------|-------------|------------|--|
| 0.13mm | Orange/Black | | | |
| 0.19mm | Orange/Red | | | |
| 0.25mm | Orange/Blue | | | |
| 0.28mm | White/Blue | | | |
| 0.31mm | Red/Blue | | | |
| 0.33mm | Brown/Blue | | | |
| 0.36mm | Brown/Black | | | |
| 0.38mm | Orange/Green | 116-0651-04 | | |
| 0.44mm | Green/Yellow | | | |
| 0.51mm | Orange/Yellow | 116-0651-05 | | |
| 0.57mm | White/Yellow | | | |
| 0.64mm | Orange/White | 116-0651-06 | | |
| 0.76mm | Black/Black | 116-0651-07 | | |
| 0.89mm | Orange/Orange | 116-0651-08 | | |
| 0.95mm | White/Black | | | |
| 1.02mm | White/White | 116-0651-09 | | |
| 1.09mm | White/Red | | | |
| 1.14mm | Red/Red | 116-0651-10 | | |
| 1.22mm | Red/Grey | | | |
| 1.30mm | Grey/Grey | 116-0651-11 | | |
| 1.42mm | Yellow/Yellow | 116-0651-12 | | |
| 1.52mm | Yellow/Blue | 116-0651-19 | | |
| 1.65mm | Blue/Blue | 116-0651-13 | | |
| 1.75mm | Blue/Green | | | |
| 1.85mm | Green/Green | 116-0651-14 | | |
| 2.06mm | Purple/Purple | 116-0651-15 | | |
| 2.29mm | Purple/Black | 116-0651-16 | | |
| 2.54mm | Purple/Orange | 116-0651-17 | | |
| 2.79mm | Purple/White | 116-0651-18 | | |
| 3.18mm | Black/White | | | |
| * Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in a minimum order requirement, longer lead times or may not be available. | | | | |






















































Viton® pump tubes

188-0133-XX Series 2 Bridge Viton® Pump Tubes

Available in packs of 12 tubes



For Flared Tubing place an "F" in front of the 178+0539-XX series part number. For example: F178+0539-16

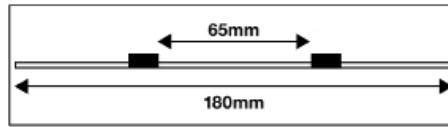
| Metric I.D. | Description | Part No.* | Color Code | |
|-------------|---------------|--------------|---|---|
| 0.13mm | Orange/Black | |  |  |
| 0.19mm | Orange/Red | |  |  |
| 0.25mm | Orange/Blue | |  |  |
| 0.28mm | White/Blue | |  |  |
| 0.31mm | Red/Blue | |  |  |
| 0.33mm | Brown/Blue | |  |  |
| 0.36mm | Brown/Black | |  |  |
| 0.38mm | Orange/Green | 188-0133-04* |  |  |
| 0.44mm | Green/Yellow | |  |  |
| 0.51mm | Orange/Yellow | 188-0133-05* |  |  |
| 0.57mm | White/Yellow | |  |  |
| 0.64mm | Orange/White | 188-0133-06* |  |  |
| 0.76mm | Black/Black | 188-0133-07* |  |  |
| 0.89mm | Orange/Orange | 188-0133-08* |  |  |
| 0.95mm | White/Black | |  |  |
| 1.02mm | White/White | 188-0133-09* |  |  |
| 1.09mm | White/Red | |  |  |
| 1.14mm | Red/Red | 188-0133-10* |  |  |
| 1.22mm | Red/Grey | 188-0133-11* |  |  |
| 1.30mm | Grey/Grey | 188-0133-12* |  |  |
| 1.42mm | Yellow/Yellow | |  |  |
| 1.52mm | Yellow/Blue | |  |  |
| 1.65mm | Blue/Blue | 188-0133-13* |  |  |
| 1.75mm | Blue/Green | |  |  |
| 1.85mm | Green/Green | 188-0133-14* |  |  |
| 2.06mm | Purple/Purple | 188-0133-15* |  |  |
| 2.29mm | Purple/Black | |  |  |
| 2.54mm | Purple/Orange | |  |  |
| 2.79mm | Purple/White | |  |  |
| 3.18mm | Black/White | |  |  |

* Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in a minimum order requirement, longer lead times or may not be available.

Viton® pump tubes

116-0830-XX Series 2 Bridge Viton® Pump Tubes

Available in packs of 12 tubes



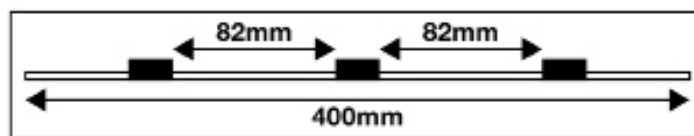
For Flared Tubing place an "F" in front of the 116-0380-XX series part number. For example: F116-0830-17

| Metric I.D. | Description | Part No.* | Color Code | |
|--|---------------|--------------|------------|--|
| 0.13mm | Orange/Black | | | |
| 0.19mm | Orange/Red | | | |
| 0.25mm | Orange/Blue | | | |
| 0.28mm | White/Blue | | | |
| 0.31mm | Red/Blue | | | |
| 0.33mm | Brown/Blue | | | |
| 0.36mm | Brown/Black | | | |
| 0.38mm | Orange/Green | 116-0830-04* | | |
| 0.44mm | Green/Yellow | | | |
| 0.51mm | Orange/Yellow | 116-0830-05* | | |
| 0.57mm | White/Yellow | | | |
| 0.64mm | Orange/White | 116-0830-06* | | |
| 0.76mm | Black/Black | 116-0830-07* | | |
| 0.89mm | Orange/Orange | 116-0830-08* | | |
| 0.95mm | White/Black | | | |
| 1.02mm | White/White | 116-0830-09* | | |
| 1.09mm | White/Red | | | |
| 1.14mm | Red/Red | 116-0830-10* | | |
| 1.22mm | Red/Grey | | | |
| 1.30mm | Grey/Grey | 116-0830-11* | | |
| 1.42mm | Yellow/Yellow | 116-0830-12* | | |
| 1.52mm | Yellow/Blue | | | |
| 1.65mm | Blue/Blue | 116-0830-13* | | |
| 1.75mm | Blue/Green | | | |
| 1.85mm | Green/Green | 116-0830-14* | | |
| 2.06mm | Purple/Purple | 116-0830-15* | | |
| 2.29mm | Purple/Black | | | |
| 2.54mm | Purple/Orange | | | |
| 2.79mm | Purple/White | | | |
| 3.18mm | Black/White | | | |
| * Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in an minimum order requirement, longer lead times or may not be available. | | | | |

Viton® pump tubes

SC02XX Series 3 Bridge Viton® Pump Tubes

Available in packs of 12 tubes



For Flared Tubing place an "F" in front of the FSC02XX series part number. For example: FSC0257

| Metric I.D. | Description | Part No.* | Color Code | | |
|-------------|----------------------|-----------|------------|--|--|
| 0.13mm | Orange/Black/Orange | | | | |
| 0.19mm | Orange/Red/Orange | | | | |
| 0.25mm | Orange/Blue/Orange | | | | |
| 0.28mm | White/Blue/White | | | | |
| 0.31mm | Red/Blue/Red | | | | |
| 0.33mm | Brown/Blue/Brown | | | | |
| 0.36mm | Brown/Black/Brown | | | | |
| 0.38mm | Orange/Green/Orange | SC0254* | | | |
| 0.44mm | Green/Yellow/Green | | | | |
| 0.51mm | Orange/Yellow/Orange | SC0255 | | | |
| 0.57mm | White/Yellow/White | | | | |
| 0.64mm | Orange/White/Orange | SC0256 | | | |
| 0.76mm | Black/Black/Black | SC0257 | | | |
| 0.89mm | Orange/Orange/Orange | SC0258 | | | |
| 0.95mm | White/Black/White | | | | |
| 1.02mm | White/White/White | SC0259 | | | |
| 1.09mm | White/Red/White | | | | |
| 1.14mm | Red/Red/Red | SC0260 | | | |
| 1.22mm | Red/Grey/Red | | | | |
| 1.30mm | Grey/Grey/Grey | SC0261 | | | |
| 1.42mm | Yellow/Yellow/Yellow | SC0262 | | | |
| 1.52mm | Yellow/Blue/Yellow | SC0263 | | | |
| 1.65mm | Blue/Blue/Blue | SC0264 | | | |
| 1.75mm | Blue/Green/Blue | | | | |
| 1.85mm | Green/Green/Green | SC0265 | | | |
| 2.06mm | Purple/Purple/Purple | SC0266 | | | |
| 2.29mm | Purple/Black/Purple | SC0267 | | | |
| 2.54mm | Purple/Orange/Purple | SC0268 | | | |
| 2.79mm | Purple/White/Purple | SC0269 | | | |
| 3.18mm | Black/White/Black | | | | |

* Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in a minimum order requirement, longer lead times or may not be available.

Tygon® PVC standard pump tubes

Tygon® brand Phthalate Free PVC or AutoAnalysis Tubing is a micro-bore diameter tubing used in AutoAnalyzer instruments and micro-bore peristaltic

pumps. This tubing is great for harsh reagents and is clear with an excellent chemical resistance.

Product:
Phthalate Free Tygon® PVC

Full Name:
Tygon® PVC

Applications:
Peristaltic Pump, Laboratory and
Pharmaceutical

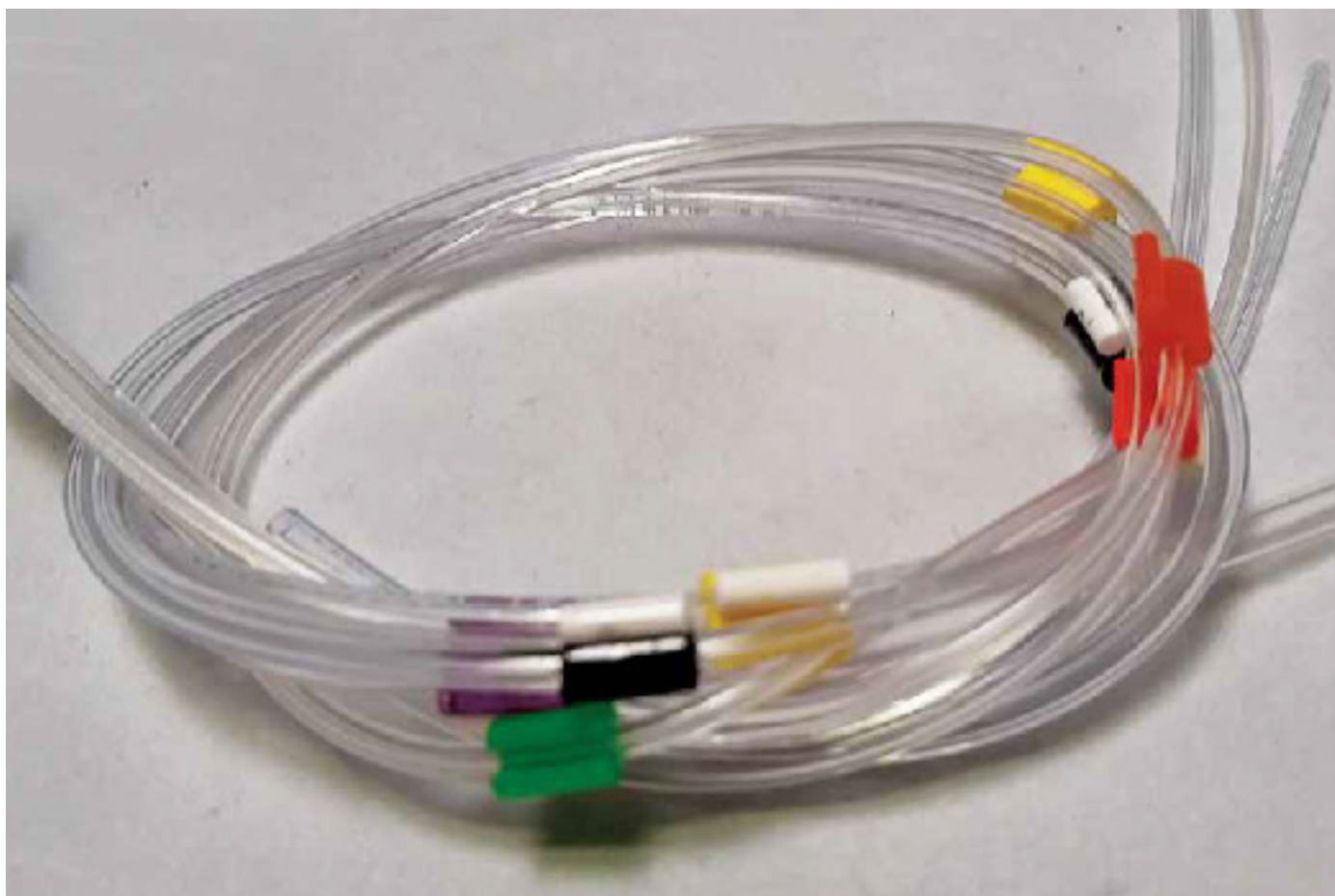
Characteristics:
Supple, Strong
Excellent Pumping Life
Good Handling Characteristics
Crack Resistant
Smooth and Polished Inner Wall

Sterilizations:
Ethylene Oxide
Autoclave

Hardness:
55 Shore A

Elongation at Break:
450%

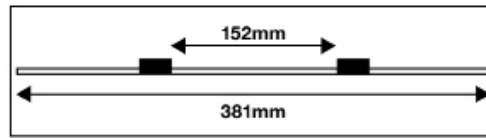
Certification:
Meets USP Class VI
US Pharmacopoeia Tested and Certified



Tygon® PVC standard pump tubes

P116-0549-XX Series Tygon® PVC 2 Bridge Pump Tubes

Available in packs of 12 tubes



For Flared tubing place an "F" in front of the P116-0549-XX part number. For example: FP116-0549-08

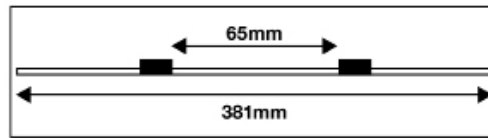
| Metric I.D. | Description | Part No.* | Color Code | |
|-------------|---------------|---------------|------------|--|
| 0.13mm | Orange/Black | P116-0549-01* | | |
| 0.19mm | Orange/Red | P116-0549-02 | | |
| 0.25mm | Orange/Blue | P116-0549-03 | | |
| 0.28mm** | White/Blue | | | |
| 0.31mm** | Red/Blue | P116-0549-20* | | |
| 0.33mm** | Brown/Blue | | | |
| 0.36mm** | Brown/Black | | | |
| 0.38mm | Orange/Green | P116-0549-04 | | |
| 0.44mm | Green/Yellow | | | |
| 0.51mm | Orange/Yellow | P116-0549-05 | | |
| 0.57mm | White/Yellow | | | |
| 0.64mm | Orange/White | P116-0549-06 | | |
| 0.69mm | Black/Black | P116-0549-07 | | |
| 0.89mm | Orange/Orange | P116-0549-08 | | |
| 0.95mm | White/Black | | | |
| 1.02mm | White/White | P116-0549-09 | | |
| 1.09mm | White/Red | | | |
| 1.14mm | Red/Red | P116-0549-10 | | |
| 1.22mm | Red/Grey | | | |
| 1.25mm | Grey/Grey | P116-0549-11 | | |
| 1.42mm | Yellow/Yellow | P116-0549-12 | | |
| 1.49mm | Yellow/Blue | P116-0549-19 | | |
| 1.60mm | Blue/Blue | P116-0549-13 | | |
| 1.75mm | Blue/Green | | | |
| 1.81mm | Green/Green | P116-0549-14 | | |
| 2.06mm | Purple/Purple | P116-0549-15 | | |
| 2.20mm | Purple/Black | P116-0549-16 | | |
| 2.54mm | Purple/Orange | P116-0549-17 | | |
| 2.79mm | Purple/White | P116-0549-18 | | |
| 3.17mm | Black/White | P116-0549-21 | | |

*Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in a minimum order requirement, longer lead times or may not be available. **Inner diameter of this tubing may be different than what is listed by no more than +/- .03mm

Tygon® PVC standard pump tubes

P178-3748-XX Series Tygon® PVC 2 Bridge Pump Tubes

Available in packs of 12 tubes



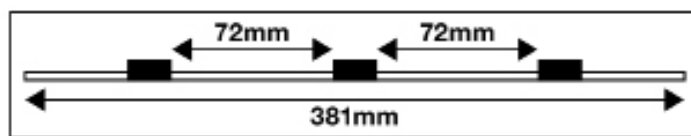
For Flared tubing place an "F" in front of the P178-3748-XX part number. For example: FP178-3748-12

| Metric I.D. | Description | Part No.* | Color Code | |
|---|---------------|---------------|------------|--|
| 0.13mm | Orange/Black | P178-3748-01* | | |
| 0.19mm | Orange/Red | P178-3748-02 | | |
| 0.25mm | Orange/Blue | P178-3748-03 | | |
| 0.28mm** | White/Blue | | | |
| 0.31mm** | Red/Blue | | | |
| 0.33mm** | Brown/Blue | | | |
| 0.36mm** | Brown/Black | | | |
| 0.38mm | Orange/Green | P178-3748-04 | | |
| 0.44mm | Green/Yellow | | | |
| 0.51mm | Orange/Yellow | P178-3748-05 | | |
| 0.57mm | White/Yellow | | | |
| 0.64mm | Orange/White | P178-3748-06 | | |
| 0.69mm | Black/Black | P178-3748-07 | | |
| 0.89mm | Orange/Orange | P178-3748-08 | | |
| 0.95mm | White/Black | | | |
| 1.02mm | White/White | P178-3748-09 | | |
| 1.09mm | White/Red | | | |
| 1.14mm | Red/Red | P178-3748-10 | | |
| 1.22mm | Red/Grey | | | |
| 1.25mm | Grey/Grey | P178-3748-11 | | |
| 1.42mm | Yellow/Yellow | P178-3748-12 | | |
| 1.49mm | Yellow/Blue | P178-3748-19 | | |
| 1.60mm | Blue/Blue | P178-3748-13 | | |
| 1.75mm | Blue/Green | | | |
| 1.81mm | Green/Green | P178-3748-14 | | |
| 2.06mm | Purple/Purple | P178-3748-15 | | |
| 2.20mm | Purple/Black | P178-3748-16 | | |
| 2.54mm | Purple/Orange | P178-3748-17 | | |
| 2.79mm | Purple/White | P178-3748-18 | | |
| 3.17mm | Black/White | | | |
| *Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in a minimum order requirement, longer lead times or may not be available. **Inner diameter of this tubing may be different than what is listed by no more than +/- .03mm | | | | |

Tygon® PVC standard pump tubes

TSC00XX Series 3 Bridge Tygon® Pump Tubes

Available in packs of 12 tubes



For Flared Tubing place an "F" in front of the TSC00XX series part number. For example: FTSC0061

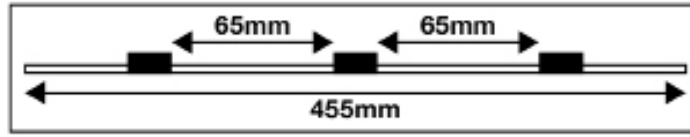
| Metric I.D. | Description | Part No.* | Color Code | | |
|-------------|----------------------|-----------|------------|--|--|
| 0.13mm | Orange/Black/Orange | | | | |
| 0.19mm | Orange/Red/Orange | TSC0049* | | | |
| 0.25mm | Orange/Blue/Orange | TSC0050 | | | |
| 0.28mm** | White/Blue/White | | | | |
| 0.31mm** | Red/Blue/Red | | | | |
| 0.33mm** | Brown/Blue/Brown | | | | |
| 0.36mm** | Brown/Black/Brown | | | | |
| 0.38mm | Orange/Green/Orange | | | | |
| 0.44mm | Green/Yellow/Green | | | | |
| 0.51mm | Orange/Yellow/Orange | TSC0053 | | | |
| 0.57mm | White/Yellow/White | | | | |
| 0.64mm | Orange/White/Orange | TSC0055 | | | |
| 0.69mm | Black/Black/Black | TSC0056 | | | |
| 0.89mm | Orange/Orange/Orange | TSC0057 | | | |
| 0.95mm | White/Black/White | TSC0058* | | | |
| 1.02mm | White/White/White | TSC0059 | | | |
| 1.09mm | White/Red/White | | | | |
| 1.14mm | Red/Red/Red | TSC0061 | | | |
| 1.22mm | Red/Grey/Red | | | | |
| 1.25mm | Grey/Grey/Grey | TSC0063 | | | |
| 1.42mm | Yellow/Yellow/Yellow | TSC0064 | | | |
| 1.49mm | Yellow/Blue/Yellow | TSC0065 | | | |
| 1.60mm | Blue/Blue/Blue | TSC0066 | | | |
| 1.75mm | Blue/Green/Blue | | | | |
| 1.81mm | Green/Green/Green | TSC0068 | | | |
| 2.06mm | Purple/Purple/Purple | TSC0069 | | | |
| 2.20mm | Purple/Black/Purple | TSC0070 | | | |
| 2.54mm | Purple/Orange/Purple | TSC0071 | | | |
| 2.79mm | Purple/White/Purple | TSC0024* | | | |
| 3.17mm | Black/White/Black | TSC0073 | | | |

*Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in a minimum order requirement, longer lead times or may not be available. **Inner diameter of this tubing may be different than what is listed by no more than +/- .03mm

Other popular pump tubing

SK00XX Series Skalar 3 Bridge Pump Tubes

Available in packs of 12 tubes



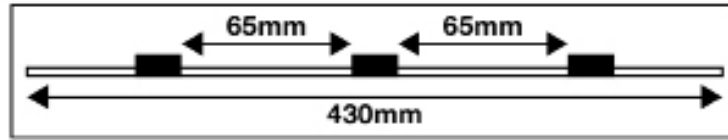
For Flared Tubing place an "F" in front of the FSK00XX series part number. For example: FSK0066

| Metric I.D. | Description | Part No.* | Color Code | | |
|--|----------------------|-----------|------------|--|--|
| 0.13mm | Orange/Black/Orange | | | | |
| 0.19mm | Orange/Red/Orange | SK0049 | | | |
| 0.25mm | Orange/Blue/Orange | | | | |
| 0.28mm | White/Blue/White | SK0050 | | | |
| 0.31mm | Red/Blue/Red | | | | |
| 0.33mm | Brown/Blue/Brown | | | | |
| 0.36mm | Brown/Black/Brown | | | | |
| 0.38mm | Orange/Green/Orange | SK0051 | | | |
| 0.44mm | Green/Yellow/Green | SK0052 | | | |
| 0.51mm | Orange/Yellow/Orange | SK0053 | | | |
| 0.57mm | White/Yellow/White | | | | |
| 0.64mm | Orange/White/Orange | SK0055 | | | |
| 0.76mm | Black/Black/Black | SK0056 | | | |
| 0.89mm | Orange/Orange/Orange | SK0057 | | | |
| 0.95mm | White/Black/White | | | | |
| 1.02mm | White/White/White | SK0059 | | | |
| 1.09mm | White/Red/White | | | | |
| 1.14mm | Red/Red/Red | SK0061 | | | |
| 1.22mm | Red/Grey/Red | | | | |
| 1.30mm | Grey/Grey/Grey | SK0063 | | | |
| 1.42mm | Yellow/Yellow/Yellow | SK0064 | | | |
| 1.52mm | Yellow/Blue/Yellow | SK0065 | | | |
| 1.65mm | Blue/Blue/Blue | SK0066 | | | |
| 1.75mm | Blue/Green/Blue | | | | |
| 1.85mm | Green/Green/Green | SK0068 | | | |
| 2.06mm | Purple/Purple/Purple | SK0069 | | | |
| 2.29mm | Purple/Black/Purple | SK0070 | | | |
| 2.54mm | Purple/Orange/Purple | SK0071 | | | |
| 2.79mm | Purple/White/Purple | SK0072 | | | |
| 3.18mm | Black/White/Black | SK0073 | | | |
| *Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in a minimum order requirement, longer lead times or may not be available. | | | | | |

Other popular pump tubing

TSC00XX Series 3 Bridge Tygon® Pump Tubes

Available in packs of 12 tubes



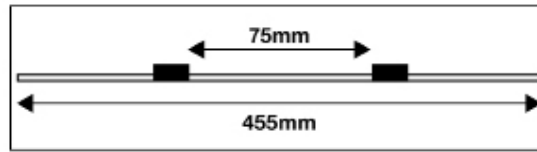
For Flared Tubing place an "F" in front of the FTSK00XX series part number. For example: FTSK0070

| Metric I.D. | Description | Part No.* | Color Code | | |
|---|----------------------|-----------|------------|--|--|
| 0.13mm | Orange/Black/Orange | TSK0060* | | | |
| 0.19mm | Orange/Red/Orange | | | | |
| 0.25mm | Orange/Blue/Orange | | | | |
| 0.28mm** | White/Blue/White | | | | |
| 0.31mm** | Red/Blue/Red | | | | |
| 0.33mm** | Brown/Blue/Brown | | | | |
| 0.36mm** | Brown/Black/Brown | | | | |
| 0.38mm | Orange/Green/Orange | TSK0051* | | | |
| 0.44mm | Green/Yellow/Green | | | | |
| 0.51mm | Orange/Yellow/Orange | TSK0053* | | | |
| 0.57mm | White/Yellow/White | | | | |
| 0.64mm | Orange/White/Orange | TSK0055* | | | |
| 0.69mm | Black/Black/Black | TSK0056* | | | |
| 0.89mm | Orange/Orange/Orange | TSK0057* | | | |
| 0.95mm | White/Black/White | | | | |
| 1.02mm | White/White/White | TSK0059* | | | |
| 1.09mm | White/Red/White | | | | |
| 1.14mm | Red/Red/Red | TSK0061* | | | |
| 1.22mm | Red/Grey/Red | | | | |
| 1.25mm | Grey/Grey/Grey | TSK0063* | | | |
| 1.42mm | Yellow/Yellow/Yellow | TSK0064* | | | |
| 1.49mm | Yellow/Blue/Yellow | TSK0065* | | | |
| 1.60mm | Blue/Blue/Blue | TSK0066* | | | |
| 1.75mm | Blue/Green/Blue | | | | |
| 1.81mm | Green/Green/Green | TSK0068* | | | |
| 2.06mm | Purple/Purple/Purple | TSK0069* | | | |
| 2.20mm | Purple/Black/Purple | TSK0070* | | | |
| 2.54mm | Purple/Orange/Purple | TSK0071* | | | |
| 2.79mm | Purple/White/Purple | TSK0072* | | | |
| 3.17mm | Black/White/Black | | | | |
| <p>*Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in an minimum order requirement, longer lead times or may not be available. **Inner diameter of this tubing may be different than what is listed by no more than +/- .03mm</p> | | | | | |

Other popular pump tubing

FUT-0651-XX Series Viton® Pump Tubes

Available in packs of 12 tubes



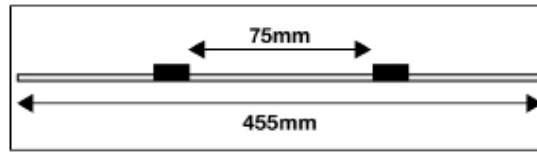
For Flared tubing place an "F" in the back of the FUT-0651-XX part number. For example: FUT-0651-10-F

| Metric I.D. | Description | Part No.* | Color Code | |
|--|---------------|--------------|------------|--|
| 0.13mm | Orange/Black | | | |
| 0.19mm | Orange/Red | | | |
| 0.25mm | Orange/Blue | FUT-0651-03* | | |
| 0.28mm | White/Blue | | | |
| 0.31mm | Red/Blue | | | |
| 0.33mm | Brown/Blue | | | |
| 0.36mm | Brown/Black | | | |
| 0.38mm | Orange/Green | FUT-0651-04* | | |
| 0.44mm | Green/Yellow | | | |
| 0.51mm | Orange/Yellow | FUT-0651-05 | | |
| 0.57mm | White/Yellow | | | |
| 0.64mm | Orange/White | FUT-0651-06 | | |
| 0.76mm | Black/Black | FUT-0651-07 | | |
| 0.89mm | Orange/Orange | FUT-0651-08 | | |
| 0.95mm | White/Black | | | |
| 1.02mm | White/White | FUT-0651-09 | | |
| 1.09mm | White/Red | | | |
| 1.14mm | Red/Red | FUT-0651-10 | | |
| 1.22mm | Red/Grey | | | |
| 1.30mm | Grey/Grey | FUT-0651-11 | | |
| 1.42mm | Yellow/Yellow | FUT-0651-12 | | |
| 1.52mm | Yellow/Blue | FUT-0651-19 | | |
| 1.65mm | Blue/Blue | FUT-0651-13 | | |
| 1.75mm | Blue/Green | | | |
| 1.85mm | Green/Green | FUT-0651-14 | | |
| 2.06mm | Purple/Purple | FUT-0651-15 | | |
| 2.29mm | Purple/Black | FUT-0651-16 | | |
| 2.54mm | Purple/Orange | FUT-0651-17* | | |
| 2.79mm | Purple/White | FUT-0651-18 | | |
| 3.18mm | Black/White | | | |
| * Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in an minimum order requirement, longer lead times or may not be available. | | | | |





























































Other popular pump tubing

FUT-3748-XX Series Futura PVC Pump Tubes

Available in packs of 12 tubes



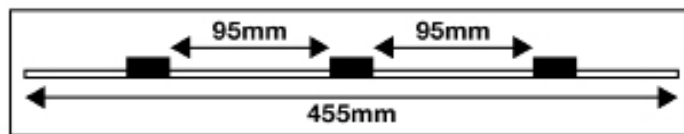
For Flared tubing place an "F" in the back of the FUT-3748-XX part number. For example: FUT-3748-10-F

| Metric I.D. | Description | Part No.* | Color Code | |
|--|---------------|-------------|---|---|
| 0.13mm | Orange/Black | |  |  |
| 0.19mm | Orange/Red | |  |  |
| 0.25mm | Orange/Blue | FUT-3748-03 |  |  |
| 0.28mm | White/Blue | |  |  |
| 0.31mm | Red/Blue | |  |  |
| 0.33mm | Brown/Blue | |  |  |
| 0.36mm | Brown/Black | |  |  |
| 0.38mm | Orange/Green | FUT-3748-04 |  |  |
| 0.44mm | Green/Yellow | |  |  |
| 0.51mm | Orange/Yellow | FUT-3748-05 |  |  |
| 0.57mm | White/Yellow | |  |  |
| 0.64mm | Orange/White | FUT-3748-06 |  |  |
| 0.76mm | Black/Black | FUT-3748-07 |  |  |
| 0.89mm | Orange/Orange | FUT-3748-08 |  |  |
| 0.95mm | White/Black | |  |  |
| 1.02mm | White/White | FUT-3748-09 |  |  |
| 1.09mm | White/Red | |  |  |
| 1.14mm | Red/Red | FUT-3748-10 |  |  |
| 1.22mm | Red/Grey | |  |  |
| 1.30mm | Grey/Grey | FUT-3748-11 |  |  |
| 1.42mm | Yellow/Yellow | FUT-3748-12 |  |  |
| 1.52mm | Yellow/Blue | FUT-3748-19 |  |  |
| 1.65mm | Blue/Blue | FUT-3748-13 |  |  |
| 1.75mm | Blue/Green | |  |  |
| 1.85mm | Green/Green | FUT-3748-14 |  |  |
| 2.06mm | Purple/Purple | FUT-3748-15 |  |  |
| 2.29mm | Purple/Black | FUT-3748-16 |  |  |
| 2.54mm | Purple/Orange | FUT-3748-17 |  |  |
| 2.79mm | Purple/White | FUT-3748-18 |  |  |
| 3.18mm | Black/White | |  |  |
| * Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in an minimum order requirement, longer lead times or may not be available. | | | | |

Other popular pump tubing

TS-95-XX Series 3 Bridge Pump Tubes

Available in packs of 12 tubes



Available in PVC, Solva, Silicone, Santoprene,* Pharmaprene* and Viton* materials.

For Flared tubing place an "F" in the back of the TS-95-XX part number. For example: TS-95-09-F

Add an -S for Solva, -SN for Santoprene, -V for Viton, -SI for Silicone and -Ph for Pharmaprene at the end of each part number to designate the material type.

| Metric I.D. | Description | Part No.* | Color Code | | |
|--|----------------------|-----------|------------|--|--|
| 0.13mm | Orange/Black/Orange | TS-95-01 | | | |
| 0.19mm | Orange/Red/Orange | | | | |
| 0.25mm | Orange/Blue/Orange | TS-95-03 | | | |
| 0.28mm | White/Blue/White | | | | |
| 0.31mm | Red/Blue/Red | TS-95-20 | | | |
| 0.33mm | Brown/Blue/Brown | | | | |
| 0.36mm | Brown/Black/Brown | | | | |
| 0.38mm | Orange/Green/Orange | TS-95-04 | | | |
| 0.44mm | Green/Yellow/Green | | | | |
| 0.51mm | Orange/Yellow/Orange | TS-95-05 | | | |
| 0.57mm | White/Yellow/White | | | | |
| 0.64mm | Orange/White/Orange | TS-95-06 | | | |
| 0.76mm | Black/Black/Black | TS-95-07 | | | |
| 0.89mm | Orange/Orange/Orange | TS-95-08 | | | |
| 0.95mm | White/Black/White | | | | |
| 1.02mm | White/White/White | TS-95-09 | | | |
| 1.09mm | White/Red/White | | | | |
| 1.14mm | Red/Red/Red | TS-95-10 | | | |
| 1.22mm | Red/Grey/Red | | | | |
| 1.30mm | Grey/Grey/Grey | TS-95-11 | | | |
| 1.42mm | Yellow/Yellow/Yellow | TS-95-12 | | | |
| 1.52mm | Yellow/Blue/Yellow | TS-95-19 | | | |
| 1.65mm | Blue/Blue/Blue | TS-95-13 | | | |
| 1.75mm | Blue/Green/Blue | | | | |
| 1.85mm | Green/Green/Green | TS-95-14 | | | |
| 2.06mm | Purple/Purple/Purple | TS-95-15 | | | |
| 2.29mm | Purple/Black/Purple | TS-95-16 | | | |
| 2.54mm | Purple/Orange/Purple | TS-95-17 | | | |
| 2.79mm | Purple/White/Purple | TS-95-18 | | | |
| 3.18mm | Black/White/Black | TS-95-21 | | | |
| *Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in a minimum order requirement, longer lead times or may not be available. | | | | | |

Notes

A large grid of dashed lines for taking notes, consisting of 20 columns and 25 rows of squares.

Bulk transmission tubing

Available in 1 meter increments

We offer bulk transmission tubing (also known as macro-bore pump tubing) for our customers. We carry many different sizes of tubing for a variety of different

peristaltic pump applications. Note: The PVC tubing is the only tubing that has the size of the tubing printed on the tubing.

| Metric I.D. | PVC Transmission Tubing Part No.* | Print Color | Solva Transmission Tubing Part No.* | Silicone Transmission Tubing Part No.* | Santoprene [®] Transmission Tubing Part No.* | Pharmaprene [®] Transmission Tubing Part No.* | Viton [®] Transmission Tubing Part No.* |
|-------------|--|---|-------------------------------------|--|---|--|--|
| 0.13mm | 116-0536-01M |  | 116-0537-01* | | GPR-0013-008M | PPR-0013-008M | |
| 0.19mm | 116-0536-02M |  | 116-0537-02* | | | | |
| 0.25mm | 116-0536-03M |  | | | GPR-0025-008M | PPR-0025-008M | |
| 0.28mm | | | | | | | |
| 0.31mm | 116-0536-20M* | | | | | | |
| 0.33mm | | | | | | | |
| 0.36mm | | | | | | | |
| 0.38mm | 116-0536-04M |  | 116-0537-04M | HS-0038-009M | GPR-0038-008M | PPR-0038-008M | 116-0538-04M* |
| 0.44mm | | | | | | | |
| 0.51mm | 116-0536-05M |  | 16-0537-05M | HS-0051-009M | GPR-0051-008M | PPR-0051-008M | 116-0538-05M |
| 0.57mm | | | | | | | |
| 0.64mm | 116-0536-06M |  | 116-0537-06M | HS-0064-009M | GPR-0064-008M | PPR-0064-008M | 116-0538-06M |
| 0.76mm | 116-0536-07M |  | 116-0537-07M | HS-0076-009M | GPR-0076-008M | PPR-0076-008M | 116-0538-07M |
| 0.89mm | 116-0536-08M |  | 116-0537-08M | HS-0089-009M | GPR-0089-008M | PPR-0089-008M | 116-0538-08M |
| 0.95mm | | | | | | | |
| 1.02mm | 116-0536-09M |  | 116-0537-09M | HS-0102-009M | GPR-0102-008M | PPR-0102-008M | 116-0538-09M |
| 1.09mm | | | | | | | |
| 1.14mm | 116-0536-10M |  | 116-0537-10M | HS-0114-009M | GPR-0114-008M | PPR-0114-008M | 116-0538-10M |
| 1.22mm | | | | | | | |
| 1.30mm | 116-0536-11M |  | 116-0537-11M | HS-0130-009M | GPR-0130-008M | PPR-0130-008M | 116-0538-11M |
| 1.42mm | 116-0536-12M |  | 116-0537-12M | HS-0142-009M | GPR-0142-008M | PPR-0142-008M | 116-0538-12M |
| 1.52mm | 116-0536-19M |  | 116-0537-19M | HS-0152-009M | GPR-0152-008M | PPR-0152-008M | 116-0538-19M |
| 1.65mm | 116-0536-13M |  | 116-0537-13M | HS-0165-009M | GPR-0165-008M | PPR-0165-008M | 116-0538-13M |
| 1.75mm | | | | | | | |
| 1.85mm | 116-0536-14M |  | 116-0537-14M | HS-0185-009M | GPR-0185-008M | PPR-0185-008M | 116-0538-14M |
| 2.06mm | 116-0536-15M |  | 116-0537-15M | HS-0206-009M | GPR-0206-008M | PPR-0206-008M | 116-0538-15M |
| 2.29mm | 116-0536-16M |  | 116-0537-16M | HS-0229-009M | GPR-0229-008M | PPR-0229-008M | 116-0538-16M |
| 2.54mm | 116-0536-17M |  | 116-0537-17M | HS-0254-009M | GPR-0254-008M | PPR-0254-008M | 116-0538-17M |
| 2.79mm | 116-0536-18M | | 116-0537-18M | HS-0279-009M | GPR-0279-008M | PPR-0279-008M | 116-0538-18M |
| 3.18mm | 116-0536-21M |  | 116-0537-21M* | | | | |
| | * Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in an minimum order requirement, longer lead times or may not be available. | | | | | | |

Tygon® transmission tubing - phthalate free

We offer bulk transmission tubing (also known as continuous tubing) for our customers. We carry many different sizes of tubing for different peristaltic pump

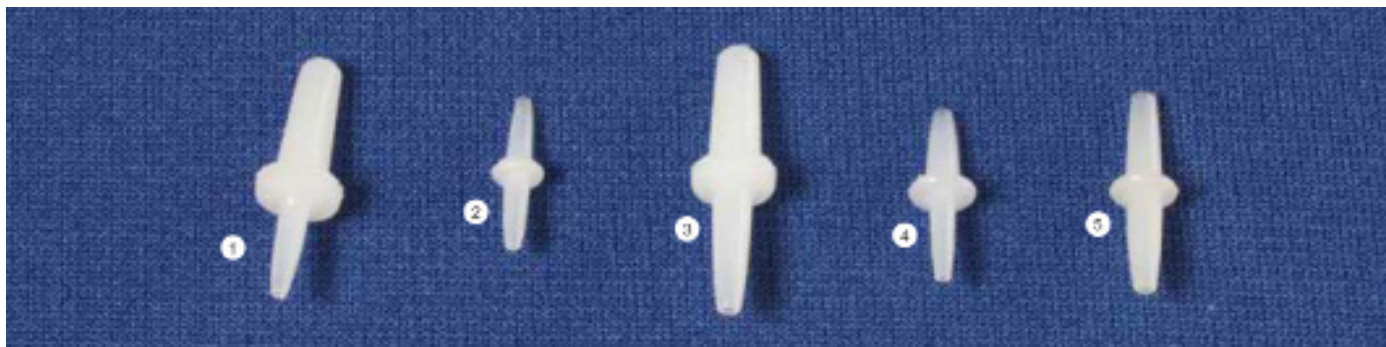
applications.

Our bulk tubing sold by the meter and is the Phthalate Free LMT-55 formula.

| Metric I.D. | Tygon® Transmission Tubing Part No.* |
|---|--------------------------------------|
| 0.13mm | P116-0536-01M |
| 0.19mm | P116-0536-02M |
| 0.25mm | P116-0536-03M |
| 0.28mm | |
| 0.31mm | |
| 0.33mm | |
| 0.36mm | |
| 0.38mm | P116-0536-04M |
| 0.44mm | |
| 0.50mm | P116-0536-05M |
| 0.57mm | |
| 0.64mm | P116-0536-06M |
| 0.76mm | P116-0536-07M |
| 0.89mm | P116-0536-08M |
| 0.95mm | |
| 1.02mm | P116-0536-09M |
| 1.09mm | |
| 1.14mm | P116-0536-10M |
| 1.22mm | |
| 1.30mm | P116-0536-11M |
| 1.42mm | P116-0536-12M |
| 1.52mm | P116-0536-19M |
| 1.65mm | P116-0536-13M |
| 1.75mm | |
| 1.85mm | P116-0536-14M |
| 2.06mm | P116-0536-15M |
| 2.29mm | P116-0536-16M |
| 2.54mm | P116-0536-17M |
| 2.79mm | P116-0536-18M |
| 3.18mm | |
| * Blank Part numbers or numbers with an asterisk at the end are special ordered items which may result in a minimum order requirement, longer lead times or may not be available. | |

Miscellaneous

Nipple connectors



Our connectors are molded from high density polyethylene for long life and structural strength. The connectors are designed with a smooth concentric and have no flashing. This eliminates bubble pattern break-up. They are designed to prevent popping of transmission lines and are chemically clean.

All connectors are sold in packs of 6. We also offer special order platinum and stainless steel connectors upon request.

| Ref # | Part number | Description | Unit of measurement |
|-------|-------------|---|---------------------|
| 1 | 116-0002-01 | Nipple N5, Small Tubing to Glass | Packs of 6 |
| 2 | 116-0003-01 | Nipple N8, Small Tubing to Small Tubing | Packs of 6 |
| 3 | 116-0004-01 | Nipple N6, Large Tubing to Glass | Packs of 6 |
| 4 | 116-0005-01 | Nipple N7, Small Tubing to Large Tubing | Packs of 6 |
| 5 | 116-0010-01 | Nipple N9, General Large Tubing Use | Packs of 6 |

Reduction coils

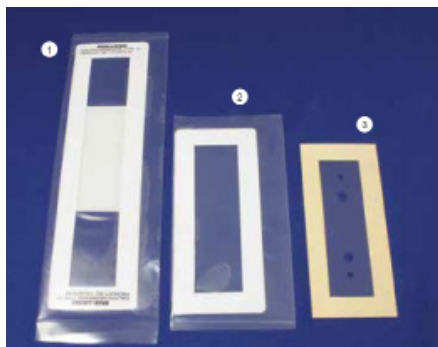


Reduction coils are designed to reduce Nitrate to Nitrite for Nitrate analyses. They are used on continuous flow auto-analyzer

instruments. They are sold individually with a tube connector (not shown in the picture.)

| Part number | Description | Unit of measurement | Comments |
|-------------|----------------------|---------------------|----------------------|
| 116-0002-01 | Reduction Coil - 12" | Each | Red coated tubing |
| 116-0003-01 | Reduction Coil - 24" | Each | Red coated tubing |
| 116-0004-01 | Reduction Coil - 12" | Each | Purple coated tubing |

Dialyzer membranes



Designed to assist in the separation of gas and/or chemicals in continuous

flow analyzers. For use in the laboratory, pharmaceutical and industrial applications.

| Ref # | Part number | Description | Unit of measurement |
|-------|-------------|------------------------|---------------------|
| 1 | 170-0472-02 | Dialyzer Membranes 12" | Packs of 12 |
| 2 | 170-0406-02 | Dialyzer Membranes 6" | Packs of 12 |
| 3 | 157-B129-01 | CO2 Dialyzer Membrane | Each |

Miscellaneous

3 way sapphire splitter

| | |
|-----------------|---|
| Part number | 116-B332-01 |
| Description | This splitter is designed for splitting the sample line. The sapphire helps to reduce sample carryover. |
| Unit of measure | Each |



Blue lead bulbs

| | |
|-----------------|--|
| Part number | 112-B007-01 |
| Description | A replacement long life lamp for the SCIC Colorimeter (AA2). |
| Unit of measure | Packs of 6 |



TrAAcs Lamp 800/2000

| | |
|-----------------|--|
| Part number | 165-B032-01 |
| Description | Replacement lamp for original TrAAcs instrument. |
| Unit of measure | Each |



3 way sapphire splitter

| | |
|-----------------|-------------------------------------|
| Part number | 199-B021-01 |
| Description | Designed for SCIC Colorimeter (AA2) |
| Unit of measure | Each |



Chemical resistance

Note: The data provided in these tables are for reference and are not binding. We recommend conducting your own testing to be sure that the medium will be compatible with the pump tube material.

Example Test: Place a sample pump tube in the medium to be delivered for 48 hours. If there is a loss in weight and / or elasticity the pump tube is not compatible. (Test Pump Tubes are available on request.)

| Medium | PVC | Silicone | Viton | PVCSolva | Santoprene |
|-------------------------|-----|----------|-------|----------|------------|
| Acetaldehyde | U | X | U | X | X |
| Acetates (low mol. wt.) | U | 0 | U | X | X |
| Acetic acid(< 5 %) | X | X | X | X | X |
| Acetic acid(> 5 %) | X | U | 0 | X | X |
| Acetic anhydride | 0 | 0 | U | X | U |
| Acetone | U | X | U | U | U |
| Acetyl bromide | U | | | X | |
| Acetyl chloride | U | X | | | |
| Air | X | X | X | X | X |
| Alcohols | X | X | X | X | |
| Aliphatic hydrocarbons | X | 0 | U | U | |
| Aluminium chloride | X | 0 | X | X | |
| Aluminium sulfate | X | X | X | X | X |
| Alums | X | X | X | | |
| Ammonia (gas-liquid) | 0 | X | U | X | X |
| Ammonium acetate | X | | | X | |
| Ammonium carbonate | X | X | | | |
| Ammonium chloride | X | X | X | | |
| Ammonium hydroxide | 0 | X | X | X | X |
| Ammonium nitrate | X | 0 | X | | |
| Ammonium phosphate | X | X | X | | |
| Ammonium sulfate | X | X | X | X | X |
| Amyl acetate | U | U | U | U | U |
| Amyl alcohol | X | U | X | U | X |
| Amyl chloride | 0 | U | X | U | |
| Aniline | 0 | U | 0 | X | X |
| Aniline hydrochloride | 0 | U | X | X | |
| Animal oils | U | 0 | X | X | X |
| Antimony salts | X | 0 | X | | |
| Aqua regia | U | 0 | X | U | |
| Aromatic hydrocarbons | U | 0 | X | U | |
| Arsenic salts | X | X | X | X | |
| Barium salts | X | X | X | X | X |
| Benzaldehyde | U | U | U | U | X |
| Benzene | 0 | U | X | U | U |
| Benzene sulfonic acid | 0 | | X | X | |
| Benzoic acid | X | 0 | X | U | U |

| Medium | PVC | Silicone | Viton | PVCSolva | Santoprene |
|-----------------------|-----|----------|-------|----------|------------|
| Benzyl alcohol | X | | X | U | X |
| Bleaching liquors | X | 0 | X | X | X |
| Boric acid | X | X | X | X | X |
| Bromine | X | U | X | X | U |
| Butane | 0 | U | X | U | U |
| Butanol | X | 0 | X | | |
| Butyl acetate | U | | U | U | U |
| Butyric acid | U | | 0 | X | X |
| Calcium salts | X | 0 | X | X | X |
| Carbon bisulfide | U | | X | U | |
| Carbon dioxide | X | 0 | X | X | X |
| Carbon tetrachloride | 0 | U | X | X | U |
| Chloracetic acid | U | | U | X | U |
| Chlorobenzene | U | | X | U | U |
| Chlorine (wet) | 0 | U | X | X | U |
| Chlorine (dry) | 0 | U | U | X | U |
| Chloroform | 0 | U | X | U | U |
| Chlorsulfonic acid | 0 | U | U | X | U |
| Chromatic acid | X | U | X | | X |
| Chromium salts | X | | | X | X |
| Copper salts | X | X | X | X | X |
| Cresol | 0 | X | X | U | U |
| Cyclohexanone | U | U | X | U | U |
| Essential oils | 0 | | | X | X |
| Ethers | 0 | U | 0 | U | U |
| Ethyl acetate | U | 0 | U | U | U |
| Ethyl alcohol | 0 | 0 | X | X | X |
| Ethyl bromide | U | | X | X | |
| Ethyl chloride | U | U | X | X | U |
| Ethylamine | U | | U | X | |
| Ethylene chlorohydrin | U | U | X | Xh | U |
| Ethylene di-chloride | U | U | X | X | U |
| Ethylene glycol | X | X | X | X | X |
| Fatty acids | 0 | 0 | X | X | |
| Ferric chloride | X | 0 | X | X | |

Chemical resistance

| Medium | PVC | Silicone | Viton | PVC Solva | Santoprene |
|-------------------------------|-----|----------|-------|-----------|------------|
| Ferric sulfate | X | 0 | X | X | X |
| Ferrous chloride | X | 0 | X | X | |
| Ferrous sulfate | X | 0 | X | X | |
| Fluoborate salts | X | X | X | | |
| Fluoboric acid | X | X | X | | |
| Fluo-silicic acid | X | X | X | | |
| Formaldehyde | X | 0 | U | X | X |
| Formic acid | X | 0 | U | X | X |
| Freon | U | U | 0 | U | U |
| Gasoline (non-aromatic) | U | U | X | U | U |
| Gasoline (high aromatic) | U | U | X | U | |
| Glucose | X | X | X | X | X |
| Glue | X | | X | X | |
| Glycerine | X | X | X | X | X |
| Hydriodic acid | X | | X | X | |
| Hydro-bromic-acid | X | U | X | X | X |
| Hydrochloric acid (dil.) | X | U | X | X | X |
| Hydrochloric acid (med.cone.) | X | U | X | X | X |
| Hydrochloric (cone.) | 0 | U | X | X | X |
| Hydrocyanic acid | X | U | X | X | X |
| Hydrofluoric acid | 0 | U | X | X | 0 |
| Hydrogen peroxide (dil.) | X | X | X | X | U |
| Hydrogen peroxyde (cone.) | U | U | 0 | X | U |
| Hydrogen sulfide | X | U | U | X | X |
| Hypochlorus acid | X | | X | X | X |
| Iodin and solutions | X | | X | U | X |
| Kerosene | U | U | X | U | |
| Ketones | U | U | U | U | |
| Laquer solvents | U | U | U | X | U |
| Lactic acid | 0 | X | U | 0 | |
| Lead acetate | X | U | U | X | |
| Linseed oil | X | X | X | U | X |
| Magnesium chloride | X | X | X | X | |
| Magnesium sulfate | X | X | X | X | |
| Malic acid | X | X | X | X | X |
| Manganese salts | X | X | X | X | X |

| Medium | PVC | Silicone | Viton | PVC Solva | Santoprene |
|------------------------------|-----|----------|-------|-----------|------------|
| Mercury salts | X | X | X | X | |
| Mixed acid 1) | 0 | X | X | | |
| Naphtha | 0 | U | X | X | U |
| Natural gas | X | X | X | U | X |
| Nickel salts | X | X | X | X | X |
| Nitric acid (dil.) | X | 0 | X | X | 0 |
| Nitric acid (med. cone.) | 0 | U | X | X | 0 |
| Nitric acid (cone.) | 0 | U | 0 | X | 0 |
| Nitrobenzene | U | U | X | U | U |
| Nitrogen oxides | X | 0 | 0 | X | X |
| Nitrous acid | X | 0 | X | U | |
| Oils, animal | U | 0 | X | X | X |
| Oils, mineral | U | 0 | X | U | X |
| Oils, vegetable | 0 | X | X | X | X |
| Oleic acid | U | U | 0 | X | 0 |
| Oxalic acid | X | 0 | X | X | X |
| Oxygen (gas) | X | X | | X | X |
| Perchloric acid | U | U | X | X | X |
| Phenol | 0 | U | X | U | U |
| Phosphoric acid (ortho.) | X | 0 | X | X | X |
| Phtalic acid | X | X | X | U | X |
| Plating solutions | X | U | X | X | X |
| Potassium carbonate | X | X | X | | |
| Potassium chlorate | X | X | X | | |
| Potassium hydroxyde | 0 | 0 | X | X | X |
| Potassium iodide | X | X | X | | |
| Pyridine | U | U | U | X | U |
| Silver nitrate | X | X | X | X | X |
| Soap solutions | X | X | X | X | X |
| Sodium bicarbonate | X | X | X | X | X |
| Sodium bisulfate | X | | X | X | X |
| Sodium bisulfite | X | X | X | X | X |
| Sodium borate | X | X | X | X | X |
| Sodium carbonate | X | X | X | X | X |
| Sodium chlorate | X | | X | X | X |
| Sodium chloride | X | X | X | X | X |
| Sodium ferrocyanide | X | | X | X | X |
| Sodium hydrosulfite | X | 0 | X | X | |
| Sodium hydroxide (dil.) | X | 0 | X | X | 0 |
| Sodium hydroxide (med.cone.) | 0 | 0 | X | X | 0 |

Chemical resistance

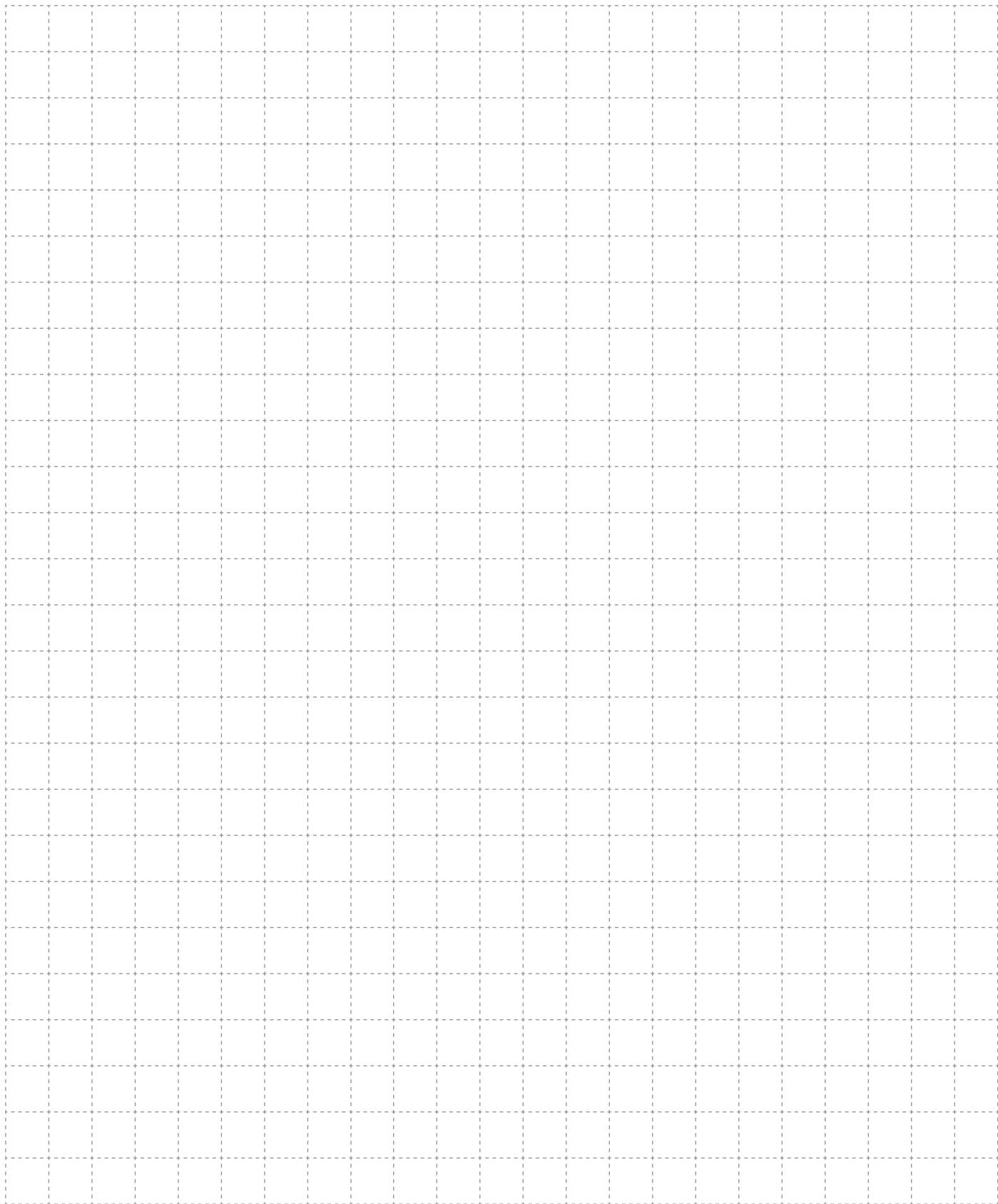
| Medium | PVC | Silicone | Viton | PVC Solva | Santoprene |
|----------------------------|-----|----------|-------|-----------|------------|
| Sodium hydroxide (cone.) | 0 | 0 | 0 | X | 0 |
| Sodium hypochlorite | X | | X | X | X |
| Sodium nitrate | X | U | | X | X |
| Sodium silicate | X | | X | X | X |
| Sodium sulfide | X | X | X | X | |
| Sodium sulphite | X | X | X | X | X |
| Stearic acid | X | O | | X | X |
| Sulfur chloride | 0 | U | X | X | U |
| Sulfur dioxide | X | O | X | X | X |
| Sulfur trioxide | X | O | X | X | X |
| Sulfuric acid (dil.) | X | U | X | X | 0 |
| Sulfuric acid (Med. cone.) | X | U | X | X | 0 |
| Sulfuric acid (cone.) | O | U | X | X | 0 |
| Sulfurous acid | X | U | X | X | X |
| | | | | | |
| Tannic acid | X | 0 | X | X | X |
| Tanning extracts | X | | X | X | X |
| Tartaric acid | X | 0 | X | X | |
| Tin salts | X | | | X | |
| Titanium salts | X | | | X | |
| Toluol | X | U | X | U | |
| Trichloroacetic acid | U | | U | X | |
| Tri-sodium phosphate | U | X | X | X | |
| Turpentine | X | U | X | U | |
| | | | | | |
| Urea | X | X | X | X | X |
| Uric acid | X | | | X | X |
| | | | | | |
| Water | X | X | X | X | X |
| Water (brine) | X | X | X | X | X |
| | | | | | |
| Xylol | U | U | X | U | U |
| | | | | | |
| Zinc chloride | X | | | | |
| | | | | | |
| Food products | 0 | | | | |
| Alcohol | 0 | X | | | 0 |
| Beer | 0 | | | | X |
| Brandy | X | X | | | 0 |
| Butter | X | | | | 0 |
| Carrot | X | | | | 0 |
| Cerio | X | | | | 0 |
| Chocolate Syrup | X | | | | 0 |

| Medium | PVC | Silicone | Viton | PVC Solva | Santoprene |
|--------------------|-----|----------|-------|-----------|------------|
| Citric acid | X | | | | 0 |
| Fish | X | | | | 0 |
| Fruit Juices | X | | | | 0 |
| Karo Syrup | X | | | | 0 |
| Mayonnaise | X | | | | 0 |
| Milk | X | | | | 0 |
| Milk of Magnesia | X | | | | 0 |
| Molasses | X | | | | 0 |
| Sauerkraut | X | | | | 0 |
| Sea Foods | X | | | | 0 |
| Sugar | X | | | | 0 |
| Tomato | X | | | | 0 |
| Vegetable oil | X | X | | | 0 |
| Vinegar | X | X | | | 0 |
| Whiskey | 0 | X | | | 0 |
| Wines | 0 | | | | 0 |
| | | | | | |
| 1) 40% Sulphuric , | | | | | |
| 15% Nitric | | | | | |

Legend:

- X = Satisfactory
- O = Use only after testing
- U = Unsatisfactory
- = No data available

Notes



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