

Tygon Plastic (available in Coil Tube - ID)2
www.onlinemetals.com
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Tygon Flexible Plastic Tubing B-44-3 (Beverage)

Clear as glass for easy flow monitoring
Broad chemical resistance
Non-wetting properties allow easy cleaning and complete drainage
Typical applications: chemical processing, food and beverage,
metal finishing, pharmaceutical
Meets FDA, 3-A and NSF criteria

Typical Physical Properties

ColorClear
Durometer Hardness, Shore A, 15 Sec63
Tear Resistance180 lb-f/inch
Tensile Strength2,300 psi
Water Absorption, 24 hrs at 23Å°C0.13%
Ultimate Elongation410%
Brittleness By Impact Temp-49Å°F (-45Å° C)
Specific Gravity1.20
Maximum Recommended Operating Temp165Å° F (74Å° C)
Dielectric Strength518 v/mil
Tensile Modulus @200% Elongation1,760 psi
Tensile Set81%

Tygon Flexible Plastic Tubing B-44-4X (Food / Dairy)

Smooth non-porous bore will not trap particulates or promote
bacteria growth
Compatible with foods containing a high oil content
Resistant to harsh alkaline cleaners and sanitizers
Typical applications - Aseptic filling, condiment dispensing,
dairy processing, soft-serve dispensing

Typical Physical Properties

ColorClear
Durometer Hardness, Shore A, 15 Sec65
Tear Resistance200 lb-f/inch
Tensile Strength2,100 psi
Water Absorption, 24 hrs at 23Å°C0.15%
Ultimate Elongation450%
Brittleness By Impact Temp-47Å°F (-44Å° C)
Specific Gravity1.21
Maximum Recommended Operating Temp165Å° F (74Å° C)
Dielectric Strength518 v/mil
Tensile Modulus @200% Elongation1,760 psi
Tensile Set78%

Tygon Flexible Plastic Tubing B-44-4X Internal Braid

Handles four times the pressure of non-reinforced tubing
Smooth non-porous bore resists particle entrapment
Clear wall enables visualization of fluid flow
Typical applications - Cosmetic production, beverage dispensing,
water purification, coolant lines, chemical transfer

Typical Physical Properties

ColorClear

Durometer Hardness, Shore A, 15 Sec65

Tear Resistance200 lb-f/inch

Tensile Strength2,100 psi

Water Absorption, 24 hrs at 23Å°C0.15%

Ultimate Elongation450%

Brittleness By Impact Temp-47Å°F (-44Å° C)

Specific Gravity1.21

Maximum Recommended Operating Temp165Å° F (74Å° C)

Dielectric Strength517 v/mil

Tensile Modulus @100% Elongation1,150 psi

Tensile Set78%

Tygon Flexible Plastic Tubing F-4040-A (Fuel / Lubricant)

Resists embrittlement caused by hydrocarbon-based fuels

Resistant to swelling

Ozone and UV light resistant

Typical applications - small engine fuel lines, coolant transfer, heating fuels, cutting compounds, lubrication lines

Typical Physical Properties

ColorTranslucent Yellow

Durometer Hardness, Shore A, 15 Sec57

Tear Resistance167 lb-f/inch

Tensile Strength1,820 psi

Water Absorption, 24 hrs at 23Å°C0.49%

Ultimate Elongation310%

Brittleness By Impact Temp-35Å°F (-37Å° C)

Specific Gravity1.26

Maximum Recommended Operating Temp165Å° F (74Å° C)

Dielectric Strength403 v/mil

Tensile Modulus @100% Elongation910 psi

Tensile Set50%

Tygon Flexible Plastic Tubing R-3400 (UV Resistant)

Protects light-sensitive fluids

Wide range of chemical resistance

Ozone and burn resistant

Low compression set; resists permanent deformation

Typical applications - Acid and caustic transfer, corrosive diffusible gases, ink and adhesive dispensing.

Typical Physical Properties

ColorBlack

Durometer Hardness, Shore A, 15 Sec64

Tear Resistance185 lb-f/inch

Tensile Strength2,250 psi

Water Absorption, 24 hrs at 23Å°C0.19%

Ultimate Elongation350%

Brittleness By Impact Temp-6Å°F (-21Å° C)

Specific Gravity1.31

Maximum Recommended Operating Temp165Å° F (74Å° C)

Dielectric Strength518 v/mil

Tensile Modulus @100% Elongation1,000 psi

Tensile Set56%

Tygon Flexible Plastic Tubing R-3603 (Laboratory)

Typical Physical Properties

ColorClear

Durometer Hardness, Shore A, 15 Sec55

Tear Resistance125 lb-f/inch

Tensile Strength1,650 psi

Water Absorption, 24 hrs at 23Å°C0.24%

Ultimate Elongation450%

Brittleness By Impact Temp-58Å°F (-50Å° C)

Specific Gravity1.18

Maximum Recommended Operating Temp165Å° F (74Å° C)

Dielectric Strength608 v/mil

Tensile Modulus @100% Elongation650 psi

Tensile Set107%

Tygon Flexible Plastic Tubing S-50-HL (Hospital / Surgical)

Sets the standard for performance and durability in the extracorporeal circuit and other blood contact applications

Crystal clear for easy visualization of fluid flow

Flexible and resilient with established performance in peristaltic pump applications

Meets USP Class VI criteria

Typical applications - Minimally invasive devices, medical laboratories, blood and I.V. solutions

Typical Physical Properties

ColorClear

Durometer Hardness, Shore A, 15 Sec66

Tear Resistance165 lb-f/inch

Tensile Strength2,000 psi

Water Absorption, 24 hrs at 23Å°C0.14%

Ultimate Elongation350%

Brittleness By Impact Temp-55Å°F (-48Å° C)

Specific Gravity1.20

Maximum Recommended Operating Temp165Å° F (74Å° C)

Dielectric Strength620 v/mil

Tensile Modulus @200% Elongation1,100 psi

Tensile Set76%

Tygon Flexible Plastic Tubing R-1000 (Ultra-Soft Lab Pump)

Ultra-soft and flexible

Performs well at low temperatures

Resistant to a broad range of corrosive chemicals

Typical applications include general laboratory, analytical instruments, peristaltic pumps, and vent and drain lines.

Outlasts silicone tubing in peristaltic pump applications by a margin of 2 to 1

Typical Physical Properties

ColorClear

Durometer Hardness, Shore A, 15 Sec40

Tear Resistance52 lb-f/inch

Tensile Strength1,200 psi

Water Absorption, 24 hrs at 23Å°C0.30%

Ultimate Elongation375%

Brittleness By Impact Temp-103°F (-75°C)
Specific Gravity1.12
Maximum Recommended Operating Temp125°F (52°C)
Dielectric Strength500 v/mil
Tensile Modulus @100% Elongation330 psi
Tensile Set73%

Tygon Flexible Plastic Tubing S-54-HL (Hospital / Microbore)
Stiffened to reduce kinking problems or wall collapse in suction applications
Thermoplastic in nature - can be fabricated into cannulas or protective sheath products
Meets or exceeds the Class VI test protocol listed in the U.S. Pharmacopeia
May be sterilized using chemical, gas, or gamma sterilization techniques

Typical Physical Properties

ColorCrystal Clear
Durometer Hardness, Shore A, 15 Sec80
Tensile Strength2,700 psi
Ultimate Elongation320%
Low Temperature RangeFlexible at 10°F
Low Temperature RangeBrittle at -25°F
High Temperature Range (Dry Heat)200°F
High Temperature Range (Steam / Autoclave)30 min. at 15 psi
OdorNone
TasteNone
ToxicityNon-Toxic

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All technical data is for comparison purposes only and is NOT FOR DESIGN. It has been compiled from sources we believe to be accurate but cannot guarantee. This ends the part of the website that our pointy-headed lawyers made us put in.

TYGON B-44-3 BEVERAGE TUBE

TYGON B-44-4X FOOD/DAIRY TUBE

TYGON B-44-4X INNER BRAID TUBE

TYGON F-4040-A (FUEL & LUBE) TUBE

TYGON R-1000 LAB PUMP TUBE

TYGON R-3400 HD CHEMICAL TUBE

TYGON R-3603 LABORATORY TUBE

TYGON R-3603 VACUUM - HD TUBE

TYGON S-50-HL HOSPITAL TUBE

TYGON S-54 HL MICROBORE TUBE

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