

Saint-Gobain Tygon® S3,ç E-3603 Phthalate-free Vacuum and Laboratory Tubing

Category : Polymer , Thermoplastic

Material Notes:

Tygon S3,ç E-3603 from Saint-Gobain Performance Plastics is now phthalate-free. Saint-Gobain is proud to be among the first companies to offer sustainable, flexible tubing products. The bio-based Tygon S3,ç line combines the high performance standards customers demand with an eco-friendly tubing design. Crystal-clear and flexible, Tygon S3,ç E-3603 non-DEHP tubing delivers the same superior performance you have come to expect, but now in a formulation that contains a non-DEHP plasticizer. Tygon S3,ç E-3603 tubing handles most inorganic chemicals found in the laboratory. It is non-oxidizing and non-contaminating, and less permeable than rubber tubing. The glassy-smooth inner bore helps prevent buildup to facilitate cleaning. Coils are marked at 1-foot (30.4 cm) intervals for easy measuring. Applications include analytical instruments, general laboratory, Peristaltic and vacuum pumps, biopharmaceutical, incubators, desiccators, gas lines, and food and beverage. Features and Benefits New bio-based formulation delivers the same excellent performance Outstanding chemical resistance Lot-to-lot consistency for reproducible results Non-oxidizing and non-contaminating Contains no BPA or phthalates Standard sizes available to hold full vacuum at room temperature Smooth, polished inner wall Slips easily over fittings and grips securely for simple lab set-ups Regulatory Information: Tygon S3,ç complies with FDA, NSF, 3-A, Japan Food Sanitation Law # 370/1959, REACH, 1935/2004/EC and 10/2011/EU for many foods and beverages. Tygon S3,ç tubing products do not contain chemicals listed in California's Prop 65. Unless otherwise noted, all tests were conducted at room temperature. Values shown were determined on 1.9 mm thick extruded strip or 1.9 mm thick molded ASTM placques or molded ASTM durometer buttons. Information provided by Saint Gobain Performance Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-Tygon-S3-E-3603-Phthalate-free-Vacuum-and-Laboratory-Tubing.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Water Absorption	0.21 % @Temperature 22.8 Å°C, Time 86400 sec	0.21 % @Temperature 73.0 Å°F, Time 24.0 hour	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	56 @Time 15.0 sec	56 @Time 0.00417 hour	ASTM D2240
Tensile Strength	12.1 MPa	1750 psi	ASTM D412
Tensile Strength, Yield	4.01 MPa @Strain 100 %	582 psi @Strain 100 %	
Elongation at Break	425 %	425 %	ASTM D412
Tear Strength	30.3 kN/m	173 pli	ASTM D1004

Mechanical Properties	Metric	English	Comments
Compression Set	@Temperature 70.0 Â°C, Time 79200 sec	@Temperature 158 Â°F, Time 22.0 hour	ASTM D395 Method B
Tensile Set	95 %	95 %	ASTM D412

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	73.9 Â°C	165 Â°F	
Brittleness Temperature	-46.1 Â°C	-51.0 Â°F	ASTM D746

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	Clear, but value not quantified

Compliance Properties	Metric	English	Comments
FDA	Yes	Yes	
NSF	Yes	Yes	

Descriptive Properties	Value	Comments
Color	Clear	

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