

## Saint-Gobain Tygon® S3 B-44-3 Bio-based Beverage Tubing Formulation

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic

### Material Notes:

Tygon S3 B-44-3, 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 line combines the high performance standards customers demand with an eco-friendly tubing design. Tygon S3 Beverage Tubing is specially formulated for transferring a wide variety of beverages including soft drinks, fruit juices, flavored teas and bottled water. In virtually all cases, Tygon S3 Beverage Tubing will not affect the taste or odor of product transferred through it, while its excellent non-wetting properties facilitate complete drainage and permit simple flush-cleaning. Many of the properties inherent to Tygon S3 Beverage Tubing also apply to a wide variety of complex applications ranging from fine cosmetic production to the dispensing of water-based printing inks found in the publishing industry. The versatility and proven performance of Tygon S3 Beverage Tubing have made it a widely specified clear, flexible plastic tubing. Features and Benefits Clear as glass for easy visual monitoring of flow Lightweight and flexible for easy, quick installation Broad chemical resistance Non-wetting properties allow easy Cleaning and complete drainage Contains no BPA or phthalates Regulatory Compliance: This product is complies with FDA, 3A, and NSF standards in the US and Reach, 1935/2004/EC, and 10/2011/EU standards in the EU. Information provided by Saint Gobain Performance Products.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Saint-Gobain-Tygon-S3-B-44-3-Bio-based-Beverage-Tubing-Formulation.php](http://www.lookpolymers.com/polymer_Saint-Gobain-Tygon-S3-B-44-3-Bio-based-Beverage-Tubing-Formulation.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Water Absorption	0.22 % @Temperature 22.8 °C, Time 86400 sec	0.22 % @Temperature 73.0 °F, Time 24.0 hour	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	66 @Time 15.0 sec	66 @Time 0.00417 hour	ASTM D2240
Tensile Strength	15.2 MPa	2200 psi	ASTM D412
Tensile Strength, Yield	9.508 MPa @Strain 200 %	1379 psi @Strain 200 %	
Elongation at Break	390 %	390 %	ASTM D412
Tear Strength	43.8 kN/m	250 pli	ASTM D1004
Compression Set	59 % @Temperature 70.0 °C, Time 79200 sec	59 % @Temperature 158 °F, Time 22.0 hour	ASTM D395 Method B

Mechanical Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	73.9 Â°C	165 Â°F	
Brittleness Temperature	-35.6 Â°C	-32.0 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	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China