

Saint-Gobain Tygon® S3, B-44-4X I.B. Pressure Tubing Formulation for filling, draining, transfer and processing applications

Category : Polymer , Thermoplastic

Material Notes:

Tygon S3, B-44-X I.B. tubing, 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, B-44-4X I.B. Pressure Tubing's flexibility gets it into service quickly and easily. This means less tubing footage, fittings and labor than required for rigid systems. Reinforced with a tough polyester inner-braid imbedded in the wall, it can handle four times the pressure of non-reinforced tubing. Tygon S3, B-44-4X I.B. Pressure Tubing is compatible with virtually all non-solvent chemicals, meeting the needs of many industries in hundreds of applications where flexibility and higher pressure are required. Its clear wall permits positive flow monitoring and inspection. The smooth inner bore of Tygon S3, B-44-4X I.B. Pressure Tubing (smoother than virtually all stainless steel) will not trap bacteria-harboring particles, making it ideal for food and beverage use. It is non-toxic, odorless, taste-free and exhibits outstanding resistance to the alkaline cleaners used in this industry. Features and Benefits Handles four times the pressure of non-reinforced tubing Smooth, non-porous bore resists particle entrapment Clear wall for visualization of fluid flow Connects easily to ReSeal® Sanitary Fittings Contains no chemicals listed in California's Prop 65 Contains no BPA or phthalates Values shown were determined on 1.905mm thick extruded strip or 1.905 thick molded ASTM plaques 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-B-44-4X-IB-Pressure-Tubing-Formulation-for-filling-draining-transfer-and-processing-applications.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	9.501 MPa @Strain 200 %	1378 psi @Strain 200 %	
Elongation at Break	390 %	390 %	ASTM D412
Tear Strength	43.8 kN/m	250 pli	ASTM D1004
	59 %	59 %	

Mechanical Properties	Metric	English	Comments
	@ Temperature 70.0 Â°C, Time 79200 sec	@ Temperature 158 Â°F, Time 22.0 hour	ASTM D153 Method B
Tensile Set	57 %	57 %	ASTM D412

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	73.9 Â°C	165 Â°F	
Brittleness Temperature	-36.1 Â°C	-33.0 Â°F	ASTM D746

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

Descriptive Properties	Value	Comments
Color	Clear	

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