

Saint-Gobain Pharmed[®] Biocompatible Tubing for Peristaltic Pumps and Cell Culture

Category : Polymer

Material Notes:

Features/Benefits: Outlasts silicone tubing in peristaltic pumps by up to 30 times. Low particulate spallation. Can be autoclaved repeatedly. Temperature resistant from -60[°]F to 275[°]F. Withstands repeated CIP and SIP cleaning and sterilization. Fully tested to ISO 10993 standards to facilitate validation process. Meets USP Class VI FDA and NSF criteria. Typical Applications include: Diagnostic test product manufacturing, cell harvest and media process systems, vaccine manufacturing, bioreactor process lines, production filtration and fermentation, sterile filling, shear sensitive fluid transfer. UL94-HB Flame Resistance Classification Passed. All data based on a 0.0625 inch test sample. (Available in multiple thicknesses.) Information provided by Saint Gobain Performance Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-Pharmed-Biocompatible-Tubing-for-Peristaltic-Pumps-and-Cell-Culture.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.970 g/cc	0.970 g/cc	ASTM D792-91
Water Absorption	0.30 %	0.30 %	24 hours at 23 [°] C; ASTM D570-81

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	64	64	Value given for 15 second test.; ASTM D2240-91
Tensile Strength, Yield	7.24 MPa	1050 psi	ASTM D-412-92
	2.76 MPa @Strain 100 %	400 psi @Strain 100 %	ASTM D412-92
Elongation at Break	375 %	375 %	ASTM D-412-92
Tear Strength	22.4 kN/m	128 pli	Tear Resistance; ASTM D1004-93
Compression Set	32 %	32 %	Constant Deflection, Value given for test at 22 hrs, 70 [°] C; ASTM D395-89 Method B
Tensile Set	47 %	47 %	ASTM D412-92

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	135 [°] C	275 [°] F	Value given for heat resistance, not necessarily a recommended operating temperature.
Minimum Service Temperature, Air	-51.1 [°] C	-60.0 [°] F	
Brittleness Temperature	-72.8 [°] C	-99.0 [°] F	ASTM D746-79

Thermal Properties	Metric	English	Comments
			Low Temperature Flexibility; ASTM D149-93

Electrical Properties	Metric	English	Comments
Dielectric Strength	24.0 kV/mm	610 kV/in	ASTM D149-93

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