

Saint-Gobain Versilicâ„ç SPX-50 High Strength Silicone Tubing Formulation

Category : Polymer , Thermoset , Silicone

Material Notes:

Description: Versilicâ„ç SPX-50: Peroxide-cured Versilicâ„ç High-Strength Silicone Tubing is designed for use in applications where flexibility, resiliency and durability are required. Its smooth inner surface reduces the risk of particulate entrapment and microscopic buildup during fluid transfer. In addition, its high and low working temperatures help the tubing retain its flexibility under extreme conditions. Because of its consistently reliable performance, Versilicâ„ç High-Strength Silicone Tubing is ideal for applications such as food & beverage dispensing & processing, appliance manufacturing, cosmetic production and electronic equipment. Custom formulations can be designed to provide a combination of features, including ultra-high temperature resistance, electrical conductivity, pigmented colors and long flexural life. **Features/Benefits:**Provides resiliency, long life and durabilityUltra-smooth inner bore reduces risk of particulate entrapmentExcellent Pressure CapabilitiesTaste and odor freeWithstands temperature extremes from -75Â°F to 350Â°FMeets FDA, 3-A ad NSF criteriaTypical applications include Veterinary Pharmaceuticals, Respiratory and Anesthesia Equipment, Sterile Filling and Processing, Analytical Instrumentation, Cosmetic Production, Environmental Remediation, Beverage Dispensing, Food and Dairy Processing, Appliance Manufacturing, Electronic EquipmentInformation provided by Saint Gobain Performance Products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Saint-Gobain-Versilic-SPX-50-High-Strength-Silicone-Tubing-Formulation.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D792-91
Water Absorption	0.060 %	0.060 %	24 hours at 23Â°C; ASTM D570-81

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	50	50	15 seconds; ASTM D2240-91
Tensile Strength, Yield	10.3 MPa	1500 psi	ASTM D412-92
Elongation at Break	450 %	450 %	ASTM D412-92
200% Modulus	0.00293 GPa	0.425 ksi	ASTM D412-92
Tear Strength	25.9 kN/m	148 pli	Initial Tear Strength; ASTM D624-91 Die B
Compression Set	10 %	10 %	Constant Deflection, for 22 hrs.; ASTM D395-89 Method B
	@Temperature 70.0 Â°C	@Temperature 158 Â°F	
	33 %	33 %	Constant Deflection, for 22 hrs.; ASTM D395-89 Method B
	@Temperature 175 Â°C	@Temperature 347 Â°F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	177 Â°C	350 Â°F	

Thermal Properties	Metric 203 Å°C	English 398 Å°F	Comments Intermittent
Brittleness Temperature	-80.0 Å°C	-112 Å°F	ASTM D746-79

Electrical Properties	Metric	English	Comments
Dielectric Strength	18.9 kV/mm	480 kV/in	ASTM D149-93

Descriptive Properties	Value	Comments
Color	Translucent	

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