



VTN-200 Tubing

Modified Fluoroelastomer

Data Sheet

Product Description

3M™ VTN-200 heat-shrinkable tubing is highly abrasion and cut-through resistant and can withstand a wide variety of fuels, lubricants, acids and highly corrosive fluids at temperatures up to 200°C. In addition to its high continuous operating temperature and chemical-resistance properties, this tubing is very flexible and is easily marked by hot-stamp or print-wheel methods. When heated in excess of 175°C (347°F), VTN-200 rapidly shrinks to a skintight fit. VTN-200 is rated for continuous operation from -55°C (-67°F) to 200°C (392°F).

Typical Applications

Because of its outstanding high-temperature fluid performance, VTN-200 Tubing is often used to protect wiring and component covers in aircraft/aerospace applications including electronic control systems and hydraulic fluid transport mechanisms and in chemical plants.

Shrink Ratio

VTN-200 Tubing has a 2:1 shrink ratio. When freely recovered, the tubing will shrink to 50% of its as-supplied internal diameter. The recovered wall thickness is proportional to the degree of recovery.

Standard Color

Black.

Standard Packaging

Spools.

Ordering Information

Order VTN-200 Tubing by product name, size equivalent to the expanded inside diameter, package type and color. Always order the largest size that will shrink snugly over the component to be covered. Example: VTN-200, 3/16," black, spools.

Standard Sizes and Dimensions

Ordering Size	Expanded I.D. (Minimum)		Recovered I.D. (Maximum)		Recovered Wall Thickness (Nominal)	
	in.	(mm)	in.	(mm)	in.	(mm)
1/8	.125	(3,18)	.062	(1,57)	.030	(0,76)
3/16	.187	(4,75)	.093	(2,36)	.035	(0,89)
1/4	.250	(6,35)	.125	(3,18)	.035	(0,89)
3/8	.375	(9,53)	.187	(4,75)	.035	(0,89)
1/2	.500	(12,70)	.250	(6,35)	.035	(0,89)
5/8	.625	(15,88)	.312	(7,92)	.042	(1,07)
3/4	.750	(19,05)	.375	(9,53)	.042	(1,07)
7/8	.875	(22,23)	.438	(11,11)	.049	(1,24)
1	1.000	(25,40)	.500	(12,70)	.049	(1,24)
1-1/4	1.250	(31,75)	.625	(15,88)	.055	(1,40)
1-1/2	1.500	(38,10)	.750	(19,05)	.055	(1,40)
2	2.000	(50,80)	1.000	(25,40)	.065	(1,65)

Typical Properties

Applicable Specification

MIL-DTL-23053/13; MIL-R-46846, Type III, Class 1

Physical

Tensile Strength 2400 PSI
 Ultimate Elongation 450%
 Longitudinal Change +1,-10%
 Specific Gravity 1.7
 Operating Temperature Range -55°C to +200°C
 Shrink Temperature (Min.) 175°C (347°F)
 Low Temperature Flexibility (4 hrs. @ -55°C) No cracking
 Flammability Self-extinguish

Electrical

Dielectric Strength 500 V/mil
 Volume Resistivity 10¹² ohm-cm

Chemical

Corrosion Resistance Non-corrosive
 Fuel & Oil Resistance Excellent
 Solvent Resistance Excellent
 Abrasion Resistance Excellent
 Acids & Alkalis Resistance Excellent

Technical information provided consists of typical product data and should not be used for specification purposes. Unless otherwise noted, all tests are performed at room temperature.

Limited Warranty – 3M expressly warrants that for a period of ninety days from the date of purchase, 3M static control products will be free of defects in materials (parts) and workmanship (labor). Defects occurring during the warranty period will be repaired or products will be replaced at 3M's option and expense, if 3M receives notice during the warranty period. Defective products must be returned to 3M with proof of purchase date.

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For your nearest distributor or to order, call 1-800-328-1368

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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