

Viton

Heat-shrinkable, chemical-resistant,
high-temperature tubing

Fax-on-Demand: (800) 260-9099
(650) 361-6523

Before ordering check with
factory for most current data.



Applications

Raychem Viton premium heat-shrinkable tubing is fabricated from a crosslinked fluoroelastomer material designed for a wide range of applications. It is available in three configurations. Viton E is the thickest wall version, Viton HW has a thinner wall and Viton TW has the thinnest wall for lighter weight applications. Offering fluid resistance, Viton tubing can be used in applications up to 200°C.

Operating Temperature Range

Viton, Viton HW, and Viton TW: -40°C* to 200°C
Viton E: -55°C to 200°C

Features/Benefits

- High resistance to impact and abrasion.
- Resistance to a wide variety of fuels, lubricants, acids, and solvents at elevated temperatures (see Raychem Specification RT-1146).
- Flexibility at low temperatures without cracking.

Installation

Minimum shrink temperature: 100°C
Minimum full recovery temperature: 175°C

Specifications/Approvals

Series	Military	Raychem
Viton, Viton TW	MIL-DTL-23053/13**	RT-1146 RK-6014/2
Viton E	Def. Stan. 59-97 Issue 3 Type 4A VG 95343 Part 5 Type D	RK-6014
Viton HW	MIL-R-46846 Type II, Class 1	RT-1145

*Viton TW is rated for -5°C when tested in accordance with RK-6014/2.

**Formerly MIL-I-23053/13.

Product Dimensions (mm/in)

Size	Inside diameter		Nominal wall thickness recovered after heating [†]		
	Minimum expanded as supplied	Maximum expanded after recovered	Viton E	Viton HW	Viton/Viton TW
3.2 (1/8)	3.2 (.125)	1.6 (.062)	0.76 (0.030)	N/A	0.76 (0.030)
4.8 (3/16)	4.8 (.188)	2.4 (.093)	0.84 (0.033)	N/A	0.89 (0.035)
6.4 (1/4)	6.4 (.250)	3.2 (.125)	0.89 (0.035)	0.76 (0.030)	0.89 (0.035)
9.5 (3/8)	9.5 (.375)	4.8 (.187)	1.02 (0.040)	0.89 (0.035)	0.89 (0.035)
12.7 (1/2)	12.7 (.500)	6.4 (.250)	1.22 (0.048)	1.09 (0.043)	0.89 (0.035)
15.9 (5/8)	15.9 (.625)	7.9 (.312)	N/A	1.19 (0.047)	1.07 (0.042)
19 (3/4)	19.1 (.750)	9.5 (.375)	1.45 (0.057)	1.32 (0.057)	1.07 (0.042)
22 (7/8)	22.2 (.875)	11.1 (.437)	N/A	1.53 (0.060)	1.25 (0.049)
25.4 (1)	25.4 (1.00)	12.7 (.500)	1.78 (0.070)	1.65 (0.065)	1.25 (0.049)
31.8 (1 1/4)	31.8 (1.25)	15.9 (.625)	N/A	1.78 (0.070)	1.40 (0.055)
38 (1 1/2)	38.1 (1.50)	19.1 (.750)	2.41 (0.095)	1.91 (0.075)	1.40 (0.055)
51.0 (2)	50.8 (2.00)	25.4 (1.00)	2.79 (0.110)	2.79 (0.110)	1.65 (0.065)

[†]Wall thickness will be less if tubing recovery is restricted during shrinkage.

Ordering Information

Color	Standard Black (-0)
Size selection	Always order the largest size that will shrink snugly over the component to be covered. Special order sizes are available upon request.
Standard packaging	On spools.
Ordering description	Specify product name, size, and color (for example, Viton 1/4-0).

Viton is a trademark of E. I. du Pont de Nemours and Company.

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Users should independently evaluate the suitability of the product for their application.