

# VITON Fluoroelastomer Heat Shrinkable tubing

氟橡膠熱縮套管

## Applications

VITON is made of cross-linked fluoroelastomer. It provides optimum performance and reliable protection in high and low temperature and harsh chemical environments, while maintaining a flexible elastic state. It is often used for the wire harness protection in chemical, aviation and automotive industries.

## 應用

VITON 是由交聯氟橡膠製造而成，可以在高低溫及惡劣的化學環境下提供最佳性能和可靠的保護，而且保持柔軟的彈性狀態，常被使用在化學、航空及汽車行業的線束保護。

## Characteristics

Shrink ratio: 2:1

Excellent flame retardance

Excellent chemical resistance

Flexibility at high and low temperatures without cracking

## 特性

收縮率：2:1

優異的阻燃性能

優異的化學抵抗性能

在高溫與低溫環境中可保持其柔軟性，不會破裂

## Operating temperature range

Continuous operating temperature: -55°C~200°C

Minimum shrink temperature: 150°C

Full recovery temperature: Above 220°C

## 操作溫度範圍

連續使用溫度：-55°C~200°C

最低收縮溫度：150°C

完全收縮溫度：220°C 以上

**Product Dimensions**      **產品規格**

Part Number 產品型號	Nominal Size 公稱尺寸		As supplied (mm) 收縮前	After recovered (mm) 收縮後		Standard Length (Meter) 標準長度(米)
	mm	inch	I.D.(min) 內徑(最小)	I.D.(max) 內徑(最大)	W.T.壁厚	
<b>Thick Type 厚型</b>						
VITON0024	2.4	3/32	2.4	1.2	0.50±0.10	200
VITON0032	3.2	1/8	3.2	1.6	0.76±0.13	100
VITON0048	4.8	3/16	4.8	2.4	0.89±0.18	100
VITON0064	6.4	1/4	6.4	3.2	0.89±0.18	50
VITON0095	9.5	3/8	9.5	4.8	0.89±0.18	50
VITON0127	12.7	1/2	12.7	6.4	0.89±0.18	50
VITON0191	19.1	3/4	19.1	9.5	1.07±0.21	30
VITON0254	25.4	1	25.4	12.7	1.25±0.30	30
VITON0381	38.1	1 1/2	38.1	19.0	1.40±0.38	30
VITON0508	50.8	2	50.8	25.4	1.65±0.43	25
<b>Thin Type 薄型</b>						
VITONTW0024	2.4	3/32	2.4	1.2	0.30±0.08	200
VITONTW0032	3.2	1/8	3.2	1.6	0.33±0.08	100
VITONTW0048	4.8	3/16	4.8	2.4	0.36±0.10	100
VITONTW0064	6.4	1/4	6.4	3.2	0.41±0.10	100
VITONTW0095	9.5	3/8	9.5	4.8	0.48±0.10	100
VITONTW0127	12.7	1/2	12.7	6.4	0.48±0.10	100
VITONTW0191	19.1	3/4	19.1	9.5	0.69±0.10	50
VITONTW0254	25.4	1	25.4	12.7	0.79±0.10	50
VITONTW0381	38.1	1 1/2	38.1	19.0	0.94±0.10	30
VITONTW0508	50.8	2	50.8	25.4	1.02±0.10	30

**Technical Data**

Property	Specification Requirement	Test Method	Typical Value
Tensile strength	≥8.2MPa	ASTM D2671	≥10.3MPa
Elongation at break	≥250%	ASTM D2671	≥400%
Elongation at break after aging	≥200%	ASTM D2671	≥300%
Heat shock	No cracking	ASTM D2671 (300°C/4 hrs)	No cracking
Low temperature flexibility	No cracking	ASTM D2671 (-55°C/4 hrs)	No cracking
Dielectric voltage withstand	AC2500V/60S No breakdown	ASTM D2671	No breakdown
Dielectric strength	≥7.9kV/mm	ASTM D2671	≥12kV/mm
Volume resistivity	≥10 <sup>9</sup> Ω · cm	ASTM D2671	≥10 <sup>9</sup> Ω · cm

Copper corrosion	No corrosion	ASTM D2671 (158°C/168 hrs)	No corrosion
Flammability	Self extinguishing within 15S after fire source removed.	UL 224	Pass
Fluid resistance (23°C/24 hrs)			
Tensile strength	≥8.2MPa	ASTM D2671	≥12MPa
Elongation at break	≥250%	ASTM D2671	≥400%

### 技術性能

特性	標準	測試方法	典型值
抗張強度	≥8.2MPa	ASTM D2671	≥10.3MPa
斷裂伸長率	≥250%	ASTM D2671	≥400%
老化後斷裂伸長率	≥200%	ASTM D2671	≥300%
熱衝擊	無裂紋	ASTM D2671 (300°C/4 小時)	無裂紋
低溫柔軟性	無裂紋	ASTM D2671 (-55°C/4 小時)	無裂紋
絕緣耐壓	AC2500V/60S 無擊穿	ASTM D2671	無擊穿
介電強度	≥7.9kV/mm	ASTM D2671	≥12kV/mm
體積電阻率	≥10 <sup>9</sup> Ω·cm	ASTM D2671	≥10 <sup>9</sup> Ω·cm
銅腐蝕性	無腐蝕	ASTM D2671 (158°C/168小時)	無腐蝕
阻燃性能	移火後 15 秒內自熄	UL 224	通過
抗液性 (23°C/24 小時)			
抗張強度	≥8.2MPa	ASTM D2671	≥12MPa
斷裂伸長率	≥250%	ASTM D2671	≥400%

Standard color: black (Other colors, special sizes, and cut pieces are available on request.)

標準顏色：黑色 (其他顏色，其他尺寸，裁切，可依客戶需求另行訂製)

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