

KYNAR Semi-rigid PVDF heat shrinkable tubing

半硬型 PVDF 熱縮套管

Applications

It is especially suitable for environments that require abrasion and high temperature resistance. KYNAR is made of polyvinylidene fluoride and has particularly outstanding performance on friction properties. It is often designed for high temperature and chemical resistant environments and for the covering of automotive control wires.

應用

特別適用於需要耐磨損及耐高溫要求的環境。KYNAR 是以聚偏二氟乙烯材料製作而成，在摩擦性能方面有特別突出的表現，常被設計用於耐高溫、耐化學的環境以及車用控制導線的包覆。

Characteristics

Shrink ratio: 2:1

Excellent flame retardance

High temperature resistance

Toughness, thin wall, insulation, abrasion and solvent resistance

特性

收縮率：2:1

優異的阻燃性能

耐高溫

堅硬、薄壁、絕緣、耐磨擦、耐溶劑

Operating temperature range

Continuous operating temperature: $-55^{\circ}\text{C}\sim 175^{\circ}\text{C}$

Minimum shrink temperature: 155°C

Full recovery temperature: Above 175°C

操作溫度範圍

連續使用溫度： $-55^{\circ}\text{C}\sim 175^{\circ}\text{C}$

最低收縮溫度： 155°C

完全收縮溫度： 175°C 以上

Approvals / Specifications 認證 / 規範



UL224 File no.E329575

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	
KYNAR-0012	1.2	3/64	1.2	0.6	0.25±0.05	1.2
KYNAR-0016	1.6	1/16	1.6	0.8	0.25±0.05	1.2
KYNAR-0024	2.4	3/32	2.4	1.2	0.25±0.05	1.2
KYNAR-0032	3.2	1/8	3.2	1.6	0.25±0.05	1.2
KYNAR-0048	4.8	3/16	4.8	2.4	0.25±0.05	1.2
KYNAR-0064	6.4	1/4	6.4	3.2	0.30±0.08	1.2
KYNAR-0095	9.5	3/8	9.5	4.8	0.30±0.08	1.2
KYNAR-0127	12.7	1/2	12.7	6.4	0.30±0.08	1.2
KYNAR-0191	19.1	3/4	19.1	9.5	0.43±0.08	1.2
KYNAR-0254	25.4	1	25.4	12.7	0.48±0.08	1.2
KYNAR-0381	38.1	1 1/2	38.1	19.0	0.51±0.08	1.2
KYNAR-0508	50.8	2	50.8	25.4	0.58±0.08	1.2

Technical Data

Property	Specification Requirement	Test Method	Typical Value
Tensile strength	≥24.3MPa	ASTM D2671	≥30MPa
Elongation at break	≥200%	ASTM D2671	≥300%
Heat shock	No cracking	ASTM D2671 (275°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
Volume resistivity	≥10 ¹¹ Ω · cm	ASTM D2671	≥10 ¹³ Ω · cm
Copper corrosion	No corrosion	ASTM D2671	No corrosion
Flammability	VW-1	UL 224	Pass

技術性能

特性	標準	測試方法	典型值
抗張強度	≥24.3MPa	ASTM D2671	≥30MPa
斷裂伸長率	≥200%	ASTM D2671	≥300%
熱衝擊	無裂紋	ASTM D2671 (275°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
體積電阻率	$\geq 10^{11} \Omega \cdot \text{cm}$	ASTM D2671	$\geq 10^{13} \Omega \cdot \text{cm}$
銅腐蝕性	無腐蝕	ASTM D2671	無腐蝕
阻燃性能	VW-1	UL 224	通過

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

標準顏色：黑色、透明 (其他顏色，其他尺寸，裁切，可依客戶需求另行訂製)

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