



G·APEX

HEAT SHRINK TUBING AND ACCESSORIES

G·APEX

G·APEX

台灣雲林應用材料股份有限公司

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Taiwan Yun Lin Applied Materials Co., Ltd.



企業簡介 Company Profile

For over 20 years, G-APEX has been focused on research and development the new materials and products in the fields of heat shrink, cold shrink tubing, and tapes. To solve the requirement of quality, safety, cost reduction, and services for the market. Providing solutions of electrical insulation and sealing protection applications for different industries.

Production: 50 million meters of monthly production capabilities of heat shrinkable tubing, the strongest product supplying abilities.

Technology: 21 patents and professional R&D team.

Certification: ISO9001、UL、ROHS、REACH、ISO10993、ISO14001、IATF16949, providing a reliable quality guarantee.

Services: Mass storage of products and our service staff in Taiwan, Japan, Thailand, Vietnam, and China, providing the fastest ship out and instant services.

Under our team structure, we're confident to fulfill all your inquiries.

G-APEX 20年來長期致力在熱縮套管、冷縮套管、膠帶領域研究開發新材料及產品，解決市場對品質、安全性、成本降低及服務的需求，提供了不同行業電氣絕緣及密封保護應用解決方案。

生產：熱縮套管月產能5千萬米，提供強大的供貨能力。

技術：21項專利技術及專業的工程研發團隊。

認證：ISO9001、UL、ROHS、REACH、ISO10993、ISO14001、IATF16949提供可靠的品質保證。

服務：台灣、日本、泰國、越南、中國各地提供大量產品庫存倉儲及服務人員，提供最快速的發貨及服務。在整體的團隊架構下，我們很自信可以完成對您的需求所託。



目錄 CONTENTS

薄壁熱縮套管 THIN WALL HEAT SHRINK TUBING

- G5 通用型熱縮套管**
General purpose, flame retardant heat shrink tubing
- G5-CB 超薄型熱縮套管**
Ultra thin wall, flame retardant heat shrink tubing
- G1 無阻燃型熱縮套管**
Non flame retardant heat shrink tubing
- G5-3X 高收縮倍率熱縮套管**
High shrink ratio heat shrink tubing
- G5-135 135°C 阻燃型熱縮套管**
135°C Flame retardant heat shrink tubing
- G5-YG 接地標示用黃綠熱縮套管**
Yellow & Green striped heat shrink tubing
- GA 耐磨型PE熱縮套管**
Abrasion-resistant PE heat shrink tubing
- YLPET PET熱縮套管**
PET heat shrink tubing
- DR 150°C 耐油熱縮套管**
150°C Diesel resistant elastomeric heat shrinkable tubing

含膠型熱縮套管 ADHESIVE-LINED HEAT SHRINK TUBING

- AIS 雙壁含膠型熱縮套管**
Dual wall heat shrink tubing
- AIS-ES 車用線束含膠熱縮套管**
Adhesive heat shrinkable tubing for automotive
- AECM 迷你電線防水封帽**
Miniature waterproof cable end cap
- ATM 通用型中壁含膠熱縮套管**
Medium wall heat shrink tubing
- ATM-FR 通用型中壁阻燃含膠熱縮套管**
Flame retardant medium wall heat shrink tubing
- AOS 柔軟型中壁含膠熱縮套管**
Flexible medium wall heat shrink tubing
- ABS 防水端子用熱縮套管**
Watertight tube for terminals and crimp splices
- ASM 通用型厚壁含膠熱縮套管**
Heavy wall heat shrink tubing
- ASM-6X 六倍收縮厚壁熱縮套管**
Heavy wall high shrink ratio heat shrink tubing

耐高溫熱縮套管 HIGH TEMPERATURE RESISTANT HEAT SHRINK TUBING

- HTK150 柔軟型PVDF熱縮套管**
Flexible PVDF heat shrinkable tubing
- KYNAR 半硬型PVDF熱縮套管**
Semi-rigid PVDF heat shrinkable tubing
- VITON 氟橡膠熱縮套管**
Fluoroelastomer heat shrinkable tubing
- FEP 200°C FEP熱縮套管**
200°C FEP heat shrinkable tubing
- PTFE 260°C PTFE熱縮套管**
260°C PTFE heat shrinkable tubing
- PFA 260°C PFA熱縮套管**
260°C PFA heat shrinkable tubing

醫療等級熱縮套管 MEDICAL-GRADE HEAT SHRINKABLE TUBING

- MTA 醫療級半硬質PVDF熱縮套管**
Medical grade semi-rigid PVDF heat shrinkable tubing
- MT2 醫療級超薄型LDPE熱縮套管**
Medical grade ultra thin wall LDPE heat shrinkable tubing
- MTC 醫療級柔軟型PVDF熱縮套管**
Medical grade flexible PVDF heat shrinkable tubing
- MTE 醫療級LDPE熱縮套管**
Medical grade LDPE heat shrinkable tubing
- MTF 醫療級高柔軟性熱縮套管**
Medical grade high flexibility heat shrinkable tubing

冷縮套管 COLD SHRINK TUBING

- ANC 矽矽橡膠冷縮套管**
Cold shrink silicone rubber sleeve
- GNC 矽矽橡膠冷縮套管**
Cold shrink silicone rubber sleeve
- NS7 矽矽橡膠握把冷縮套管**
Cold shrink silicone rubber sleeve for handle
- NS8 EPDM橡膠握把保護冷縮套管**
Cold shrink EPDM rubber sleeve for handle
- EEC EPDM橡膠冷縮封帽**
Cold shrink EPDM rubber end cap
- ENC EPDM橡膠冷縮套管**
Cold shrink EPDM rubber sleeve
- DNC 矽矽橡膠雙層冷縮套管**
Dual layer cold shrink silicone rubber sleeve

編織網管 BRAIDED SLEEVING

- BS5000 編織熱縮套管**
Fabric heat shrinkable tubing
- BS1000 PET 半剛性捲式編織管**
PET semi-rigid wrappable split braided sleeving
- BS3000 汽車線束用捲式編織管**
Wrap around braided sleeving for automotive wire assembly
- BSPET PET 編織擴充管**
PET expandable braided sleeving

電線連接用熱縮套管 ELECTRICAL INTERCONNECT HEAT SHRINKABLE TUBING

- GAST-R 125°C 防水焊錫環熱縮中接管**
125°C Solder sleeve wire splices
- GAST-B 125°C 防水焊錫環熱縮中接管**
125°C Solder sleeve wire splices
- GAST-RS 125°C 防水焊錫環熱縮中接管**
125°C Solder sleeve wire splices
- CRIMP 防水熱縮中接管**
Waterproof heat shrinkable crimp splices
- GAST-E 防水焊錫環熱縮封帽**
Solder grip closed end connector splices

高壓絕緣熱縮套管 HIGH VOLTAGE INSULATION HEAT SHRINK TUBING

- HB1 高壓母排熱縮套管 (耐壓3.6kV)**
Busbar insulating heat shrink tubing (Withstand voltage up to 3.6kV)
- HB2 高壓母排熱縮套管 (耐壓24kV)**
Busbar insulating heat shrink tubing (Withstand voltage up to 24kV)
- HB3 高壓母排熱縮套管 (耐壓36kV)**
Busbar insulating heat shrink tubing (Withstand voltage up to 36kV)

熱縮模塑套件 MOULDED SHAPES

- BOOT 模縮套**
Molded parts
- AEC 電纜防水熱縮封帽**
Heat shrinkable cable end cap

光纖用熱縮套管 FIBER OPTICAL HEAT SHRINKABLE TUBING

- ADW 光纖接續盒專用防水熱縮套管**
Heat shrinkable tubing for fiber optic splice closure
- FOSP 光纖保護套管**
Heat shrinkable fiber optic splice protector
- FOSP-K 高溫光纖保護套管**
High-temperature optical fiber protection sleeve

膠帶 TAPE

- WT800 自融性防水膠帶**
Rubber mastic tape
- WT200 自融性防水膠帶**
Rubber mastic tape
- WT300 自融性絕緣填縫膠膏帶**
Self-fusing insulation caulking mastic tape
- HBT 耐電壓矽膠膠帶 (耐壓15~24kV)**
High voltage silicone busbar insulation tape (Withstand voltage up to 15~24kV)

熱縮套管組合包 ASSORTMENT KIT

- K1-101 熱縮套管組裝盒**
Heat shrinkable tubing kit
- K1-102 熱縮套管組裝盒**
Heat shrinkable tubing kit
- K1-201 熱縮套管組裝盒**
Heat shrinkable tubing kit
- K1-301 熱縮套管組裝盒**
Heat shrinkable tubing kit
- K2-101 熱縮套管組裝盒**
Heat shrinkable tubing kit
- K2-102 熱縮套管組裝盒**
Heat shrinkable tubing kit
- K2-103 熱縮套管組裝盒**
Heat shrinkable tubing kit
- K4-101 熱縮套管組裝盒**
Heat shrinkable tubing kit
- K5-101 熱縮套管組裝盒**
Heat shrinkable tubing kit
- K6-101 熱縮套管組裝盒**
Heat shrinkable tubing kit
- K7-101 熱縮套管組裝盒**
Heat shrinkable tubing kit
- K7-201 熱縮套管組裝盒**
Heat shrinkable tubing kit
- B2 熱縮套管捲式包 (紙盒)**
Tube and sleeve - mini box
- R2 熱縮套管圓形泡殼包裝**
Tube and sleeve - blister pack
- GR 熱縮套管捲式包裝**
Heat shrinkable tubing pack - mini spool pack

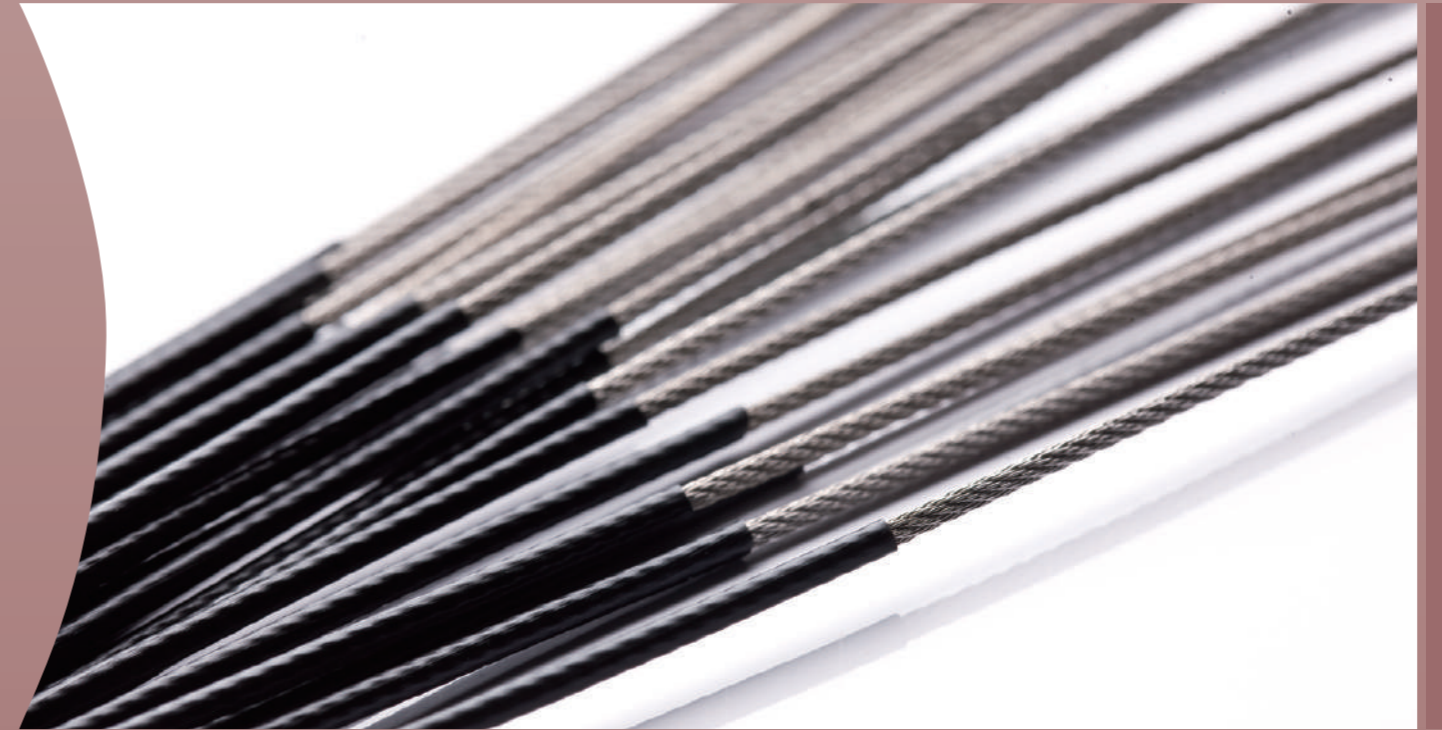
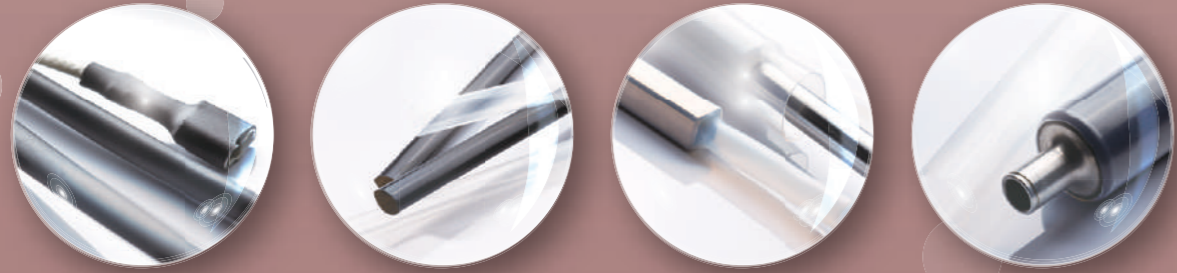
號碼標識系統 MARKING SYSTEMS

- 135°C TMS 軌道式號碼標示印字熱縮套管**
Heat shrink markers
- 125°C TMS 軌道式號碼標示印字熱縮套管**
Heat shrink markers
- 135°C CTMS 捲式號碼標示印字熱縮套管**
Heat shrink markers
- 125°C CTMS 捲式號碼標示印字熱縮套管**
Heat shrink markers
- MP 貼紙簿**
Pocket pack marker book
- MO 號碼標誌器**
Snap-on wire markers
- MH PVC熱縮電線標示號碼圈**
PVC Heat shrinkable wire marking number ring

工具 TOOL

- GHG 微型熱風槍**
Gas heat gun
- BSC 熱裁切機**
Hot knife device

**HIGH TEMPERATURE RESISTANT
HEAT SHRINK TUBING**
耐高溫熱縮套管



HIGH TEMPERATURE RESISTANT HEAT SHRINK TUBING

HIGH TEMPERATURE RESISTANT HEAT SHRINK TUBING

HTK150

**Flexible PVDF
heat shrinkable tubing**
柔軟型PVDF熱縮套管



Product Dimensions
產品規格

● 應用 Applications

HTK150是以柔軟高透明度的聚偏二氟乙烯材質製作而成，具有良好的耐化學腐蝕性、耐高溫及耐候性，常被用來包覆耐高溫電子元件及電線接頭。柔軟及透明性方便應用在電線電纜的標識保護。

HTK150 is made of flexible and highly transparent polyvinylidene fluoride. It has excellent resistance to chemical corrosion, high temperatures and weather, and is often used to cover high temperature resistant electronic components and wire splices. The flexible and transparent characteristics make it convenient to apply to the protection of wire and cable markers.

● 特性 Characteristics

- 收縮率: 2:1
- 優異的阻燃性能
- 柔軟、耐磨擦、耐溶劑
- Shrink ratio: 2:1
- Excellent flame retardance
- Flexible, abrasion resistant and solvent resistant

Approvals / Specifications 認證 / 規範

UL224 File no. E255532

● 操作溫度範圍 Operating temperature range

- Continuous operating temperature: -55°C~175°C
- Minimum shrink temperature: 125°C
- Full recovery temperature: Above 150°C
- 連續使用溫度：-55°C~175°C
- 最低收縮溫度：125°C
- 完全收縮溫度：150°C以上

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	
HTK150-0012	1.2	3/64	1.2	0.6	0.25±0.05	1.2
HTK150-0016	1.6	1/16	1.6	0.8	0.25±0.05	1.2
HTK150-0024	2.4	3/32	2.4	1.2	0.25±0.05	1.2
HTK150-0032	3.2	1/8	3.2	1.6	0.25±0.05	1.2
HTK150-0048	4.8	3/16	4.8	2.4	0.25±0.05	1.2
HTK150-0064	6.4	1/4	6.4	3.2	0.30±0.08	1.2
HTK150-0095	9.5	3/8	9.5	4.8	0.30±0.08	1.2
HTK150-0127	12.7	1/2	12.7	6.4	0.30±0.08	1.2
HTK150-0191	19.1	3/4	19.1	9.5	0.43±0.08	1.2
HTK150-0254	25.4	1	25.4	12.7	0.48±0.10	1.2
HTK150-0381	38.1	1 1/2	38.1	19.1	0.51±0.10	1.2
HTK150-0508	50.8	2	50.8	25.4	0.58±0.10	1.2

Technical Data

Property	Specification Requirement	Test Method	Typical Value
Tensile strength	≥17.3MPa	ASTM D2671	≥26MPa
Elongation at break	≥300%	ASTM D2671	≥300%
Heat shock	No cracking	ASTM D2671 (275°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 ¹¹ Ω·cm
Copper corrosion	No corrosion	ASTM D2671	No corrosion
Flammability	VW-1	UL 224	Pass

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



HIGH TEMPERATURE RESISTANT HEAT SHRINK TUBING

KYNAR

Semi-rigid PVDF heat shrinkable tubing

半硬型PVDF熱縮套管



Product Dimensions
產品規格

● 應用 Applications

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。

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.

● 操作溫度範圍 Operating temperature range

- Continuous operating temperature: -55°C~175°C
- Minimum shrink temperature: 155°C
- Full recovery temperature: Above 175°C
- 連續使用溫度：-55°C~175°C
- 最低收縮溫度：155°C
- 完全收縮溫度：175°C以上

● 特性 Characteristics

- 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
- Shrink ratio: 2:1
- Excellent flame retardance
- High temperature resistance
- Toughness, thin wall, insulation, abrasion and solvent resistance

Approvals / Specifications 認證 / 規範

UL224 File no.E329575

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±0.10	1.2
KYNAR-0381	38.1	1 1/2	38.1	19.1	0.51±0.10	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

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



※KYNAR is the trademark of Arkema company.
※KYNAR是Arkema公司的商標

HIGH TEMPERATURE RESISTANT HEAT SHRINK TUBING

VITON

Fluoroelastomer heat shrinkable tubing 氟橡膠熱縮套管



Product Dimensions
產品規格

● 應用 Applications

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。

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.

● 特性 Characteristics

- 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
- Shrink ratio: 2:1
- Excellent flame retardance
- Excellent chemical resistance
- Flexibility at high and low temperatures without cracking

● 操作溫度範圍 Operating temperature range

- Continuous operating temperature: -55°C~200°C
- Minimum shrink temperature: 150°C
- Full recovery temperature: Above 220°C
- 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

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	
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

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 ⁹ Ω·cm	ASTM D2671	≥10 ⁹ 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%

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

※VITON is a trademark of E. I. Du Pont De Nemours and Company
※VITON是杜邦公司的商標



HIGH TEMPERATURE RESISTANT HEAT SHRINK TUBING



200°C FEP heat shrinkable tubing
200°C FEP熱縮套管



Product Dimensions
產品規格

● 應用 Applications

以氟化乙烯丙烯製成的FEP熱縮管，有極佳的耐磨擦、耐化學和耐高溫性能，材料的低摩擦係數及不沾黏特性很適合用於包覆傳動滾輪。FEP材料強度及抗UV特性則常被應用於螢光燈管和UV燈管的包覆。

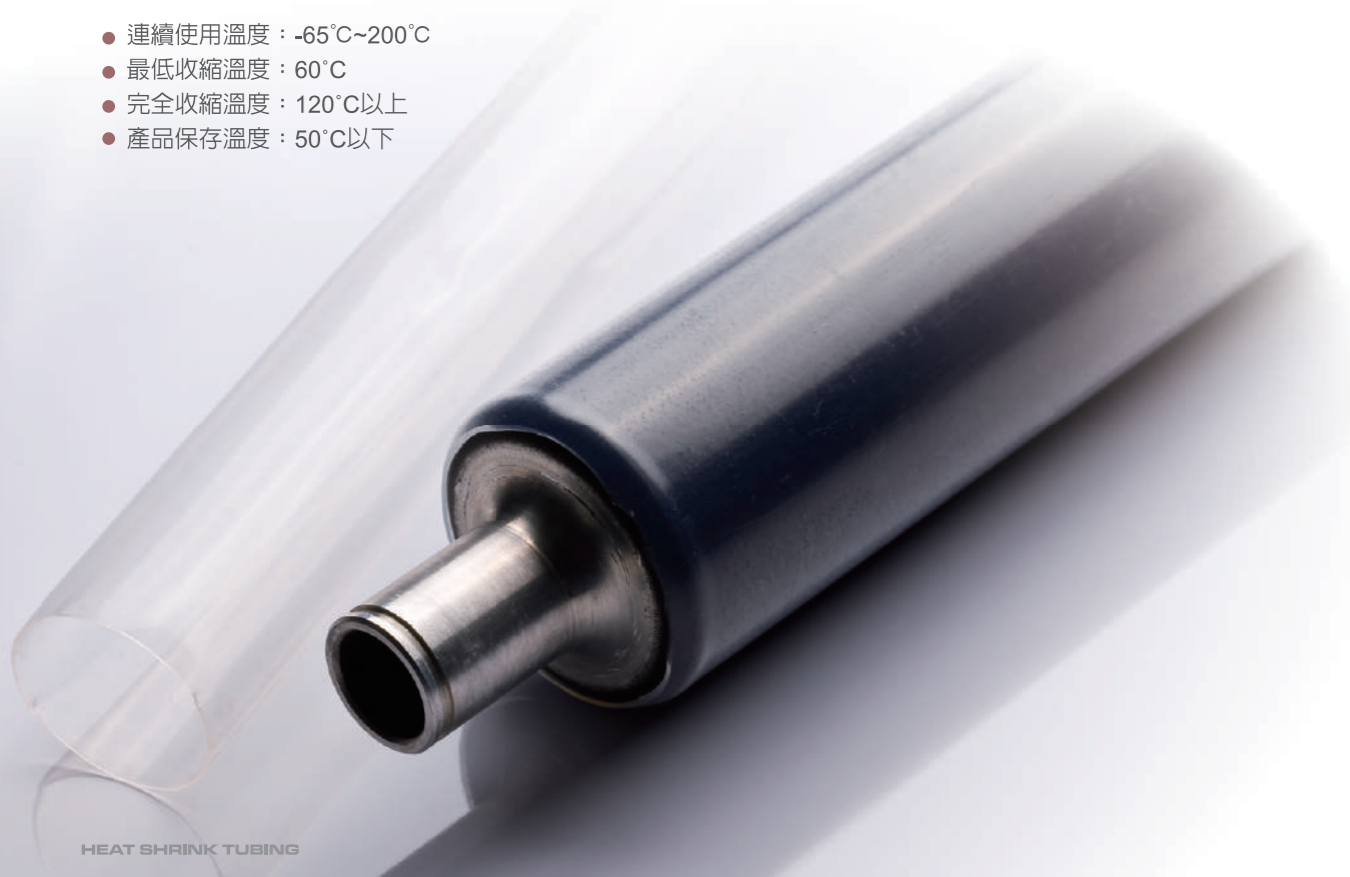
The FEP heat shrinkable tubing made of fluorinated ethylene propylene has excellent abrasion, chemical and high temperature resistance. Low coefficient of friction and non-stick characteristics of the material make it very suitable for the covering of drive rollers. FEP's material strength and UV resistance are often applied to the covering of fluorescent tubes and UV tubes.

● 操作溫度範圍 Operating temperature range

- Continuous operating temperature: -65°C~200°C
- Minimum shrink temperature: 60°C
- Full recovery temperature: Above 120°C
- Temperatures for product preservation: Below 50°C
- 連續使用溫度：-65°C~200°C
- 最低收縮溫度：60°C
- 完全收縮溫度：120°C以上
- 產品保存溫度：50°C以下

● 特性 Characteristics

- 收縮率：1.25:1
- 優異的阻燃性能
- 優異的耐化學、耐摩擦性能
- 優異的絕緣性能
- 高透明度
- 摩擦係數：0.2~0.3
- Shrink ratio: 1.25:1
- Excellent flame retardance
- Superior chemical and abrasion resistance
- Ideal insulation property
- High transparency
- Coefficient of friction: 0.2~0.3



Part Number	As supplied 收縮前 (mm)		After recovered 收縮後 (mm)		Standard Length (Meter)
產品型號	I.D. 內徑	W.T. (Nominal Size) 壁厚 (公稱尺寸)	I.D. (max) 內徑 (最大)	W.T. (Nominal Size) 壁厚 (公稱尺寸)	標準長度 (米)
Thick Type 厚型					
FEP0047	4.7±1	0.20	3.8	0.25	1
FEP0055	5.5±1	0.20	4.5	0.25	1
FEP0070	7±1.5	0.20	5.6	0.25	1
FEP0090	9±1.5	0.20	7.5	0.26	1
FEP0115	11.5±1.5	0.25	9.3	0.30	1
FEP0145	14.5±1.5	0.3	11.7	0.37	1
FEP0190	19±2	0.3	15.3	0.37	1
FEP0240	24±2	0.4	19.3	0.5	1
FEP0280	28±2	0.4	22.5	0.5	1
FEP0350	35±2	0.4	28.1	0.5	1
FEP0440	44±2.5	0.4	36.1	0.5	1
FEP0540	54±2.5	0.4	43.3	0.5	1
FEP0660	66±3	0.4	52.9	0.5	1
FEP0780	78±3	0.4	62.5	0.5	1
FEP0900	90±4	0.4	72.1	0.5	1
FEP1030	103±4	0.4	82.5	0.5	1
Thin Type 薄型					
FEPTW0070	7±1.5	0.15	5.6	0.20	1
FEPTW0090	9±1.5	0.15	7.5	0.20	1
FEPTW0115	11.5±1.5	0.2	9.3	0.26	1
FEPTW0145	14.5±1.5	0.2	11.7	0.26	1
FEPTW0165	16.5±1.5	0.2	13.2	0.26	1
FEPTW0190	19±2	0.2	15.3	0.26	1
FEPTW0240	24±2	0.2	19.3	0.26	1
FEPTW0280	28±2	0.2	22.5	0.26	1
FEPTW0350	35±2	0.2	28.1	0.26	1
FEPTW0440	44±2.5	0.2	36.1	0.3	1
FEPTW0540	54±2.5	0.2	43.3	0.3	1
FEPTW0660	66±3	0.3	52.9	0.4	1
FEPTW0780	78±3	0.3	62.5	0.4	1
FEP fluorescent lamp shatterproof sleeves 燈管保護FEP熱縮套管					
Part Number	Lamp Size	As supplied 收縮前 (mm)		After recovered 收縮後 (mm)	
產品型號	燈管尺寸	I.D.(min) 內徑(最小)	W.T 壁厚	I.D.(max) 內徑(最大)	
LFEP0165	T5 (15.5)	16.5	0.2±0.05	13.8	
LFEP0295	T8 (25.5)	29.5	0.2±0.05	24.0	
LFEP0340	T10 (32.5)	34.0	0.2±0.05	30.5	
LFEP0400	T12 (38.0)	40.0	0.2±0.05	36.5	

Technical Data

Property	Specification Requirement	Test Method	Typical Value
Longitudinal change	-5%~5%	ASTM D2671	Pass
Tensile strength	≥13.8MPa	ASTM D2671	≥20MPa
Elongation at break	≥150%	ASTM D2671	≥250%
Dielectric voltage withstand	AC2500V/60S No breakdown	ASTM D2671	No breakdown
Volume resistivity	≥10 ¹⁵ Ω · cm	ASTM D2671	≥10 ¹⁶ Ω · cm
Copper corrosion	No corrosion	ASTM D2671 (158°C/168 hrs)	No corrosion
Flammability	VW-1	UL 224	Pass

Standard color : clear
Special sizes and cut pieces are available on request.

標準顏色：透明
其他尺寸，裁切，可依客戶需求另行訂製
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HIGH TEMPERATURE RESISTANT HEAT SHRINK TUBING

PTFE

260°C PTFE heat shrinkable tubing

260°C PTFE熱縮套管



Product Dimensions
產品規格

● 應用 Applications

PTFE熱縮管是以聚四氟乙烯材料製成，在塑料類具有最低的摩擦係數和極佳的耐腐蝕性能，在耐高低溫能力上有非常良好的表現，PTFE優異的電氣、物理、化學性能可以應用在各種嚴格環境領域。

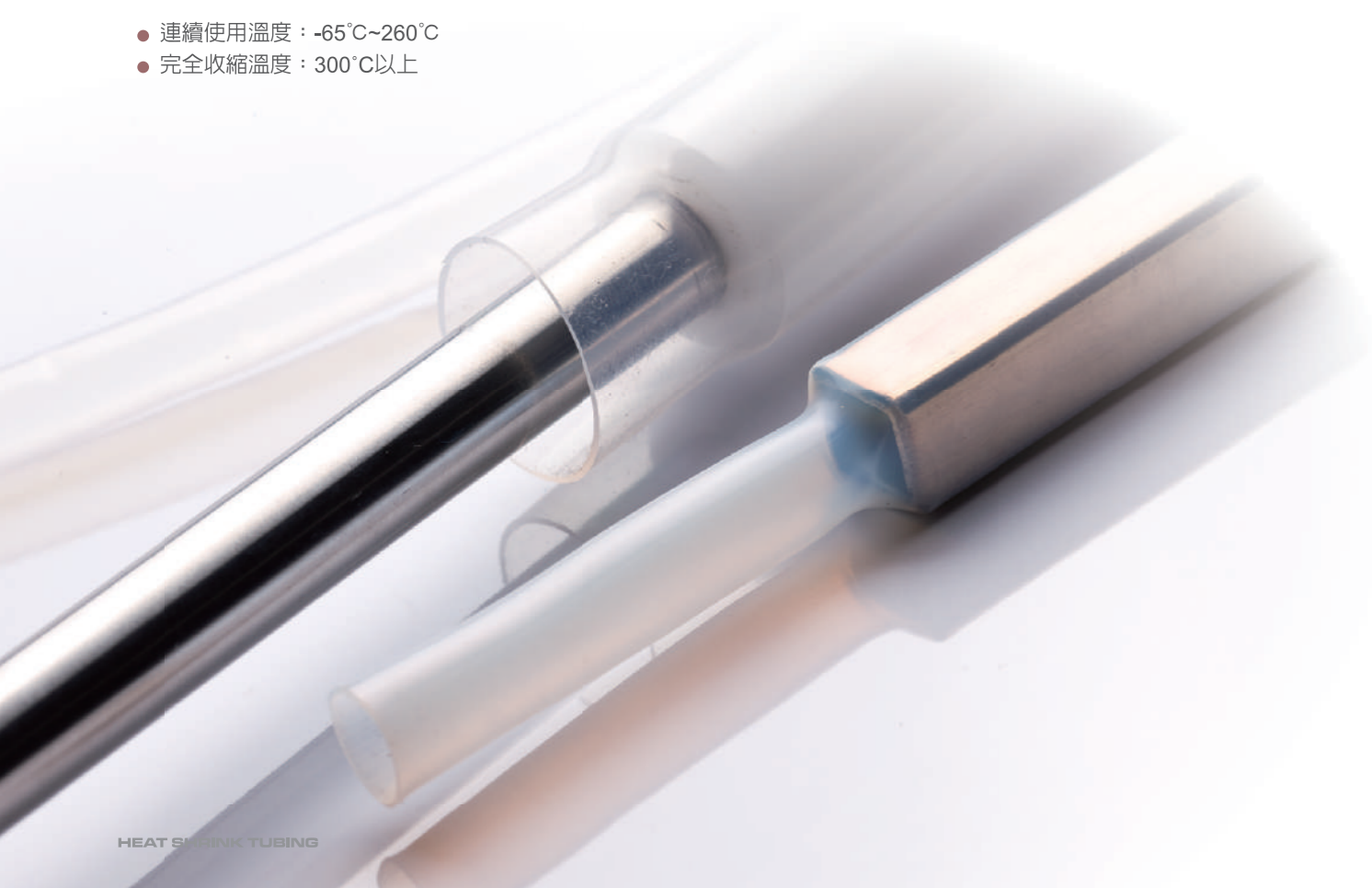
PTFE heat shrinkable tubing is made of polytetrafluoroethylene, which has the lowest friction coefficient and excellent corrosion resistance in plastics, and performs very well in high and low temperature resistance. The excellent electrical, physical and chemical properties of PTFE can be applied to a variety of strict environmental fields.

● 操作溫度範圍 Operating temperature range

- Continuous operating temperature: -65°C~260°C
- Full recovery temperature: Above 300°C
- 連續使用溫度：-65°C~260°C
- 完全收縮溫度：300°C以上

● 特性 Characteristics

- 收縮率：1.6:1 或 4:1
- 優異的阻燃性能
- 優異的化學抵抗性能
- 優異的絕緣性能
- 優異的抗摩擦性能
- 摩擦係數：0.1
- Shrink ratio: 1.6:1 or 4:1
- Excellent flame retardance
- Superior chemical resistance
- Ideal insulation property
- Excellent abrasion resistance
- Coefficient of friction: 0.1



Part Number 產品型號	As supplied 收縮前 (mm)		After recovered 收縮後 (mm)		Standard Length (Meter) 標準長度(米)
	I.D. (min) 內徑(最小)	I.D. (max) 內徑(最大)	I.D. (max) 內徑(最大)	W.T. (min) 壁厚(最小)	
1.6:1 Shrink ratio 收縮率 (Thick Type厚型)					
PTFE0023	2.36		1.60	0.30	1.22
PTFE0030	3.05		2.00	0.30	1.22
PTFE0038	3.81		2.40	0.30	1.22
PTFE0048	4.85		3.00	0.30	1.22
PTFE0061	6.10		3.60	0.38	1.22
PTFE0076	7.67		4.60	0.38	1.22
PTFE0094	9.40		5.60	0.38	1.22
PTFE0109	10.92		7.00	0.38	1.22
PTFE0119	11.94		8.70	0.38	1.22
1.6:1 Shrink ratio 收縮率 (Thin Type薄型)					
PTFETW0005	0.5		0.38	0.10	200
PTFETW0010	1.0		0.70	0.10	200
PTFETW0015	1.5		0.90	0.10	200
PTFETW0020	2.0		1.30	0.10	200
PTFETW0025	2.5		1.60	0.10	100
PTFETW0030	3.0		1.90	0.13	100
PTFETW0040	4.0		2.45	0.15	100
PTFETW0050	5.0		3.00	0.15	100
PTFETW0065	6.5		4.20	0.15	100
PTFETW0075	7.5		4.60	0.15	100
PTFETW0090	9.0		5.60	0.18	100
PTFETW0110	11.0		6.90	0.18	100
PTFETW0120	12.0		7.50	0.18	100
PTFETW0140	14.0		8.50	0.18	100
PTFETW0160	16.0		10.50	0.18	100
4:1 Shrink ratio 收縮率					
Part Number 產品型號	As supplied 收縮前 (mm)		After recovered 收縮後 (mm)		Standard Length (Meter) 標準長度(米)
	I.D. (min) 內徑(最小)	I.D. (max) 內徑(最大)	I.D. (max) 內徑(最大)	W.T. (min) 壁厚(最小)	
PTFE4X0020	2.0		0.50	0.20	200
PTFE4X0025	2.5		0.60	0.20	200
PTFE4X0035	3.5		0.80	0.25	100
PTFE4X0045	4.5		1.10	0.25	100
PTFE4X0060	6.0		1.50	0.25	1.22
PTFE4X0080	8.0		2.20	0.25	1.22
PTFE4X0095	9.5		2.40	0.25	1.22

Technical Data

Property	Specification Requirement	Test Method	Typical Value
Tensile strength	≥17.3MPa	ASTM D2671	≥22MPa
Elongation at break	≥200%	ASTM D2671	≥300%
Heat shock	No cracking	ASTM D2671 (260°C/4 hrs)	No cracking
Low temperature flexibility	No cracking	ASTM D2671 (-65°C/4 hrs)	No cracking
Volume resistivity	≥10 ¹⁵ Ω · cm	ASTM D2671	≥10 ¹⁵ Ω · cm
Dielectric strength	≥34kV/mm	ASTM D2671	34kV/mm
Copper corrosion	No corrosion	ASTM D2671 (158°C/168 hrs)	No corrosion
Flammability	VW-1	UL 224	Pass

Standard color : clear (Special sizes and cut pieces are available on request.)

標準顏色：透明（其他尺寸，裁切，可依客戶需求另行訂製）

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HIGH TEMPERATURE RESISTANT HEAT SHRINK TUBING

PFA

260°C PFA heat shrinkable tubing

260°C PFA熱縮套管



Product Dimensions
產品規格

● 應用 Applications

PFA熱縮管是以可溶性聚四氟乙烯材料製成。相同FEP產品的低摩擦係數、耐化學及不沾黏性，但比FEP具有更高的耐熱性能，可在260°C的溫度下連續使用，PFA幾乎對所有的化學物質具有耐腐蝕性，適合使用在高溫環境下的防沾黏和耐化學應用。

PFA heat shrinkable tubing is made of soluble polytetrafluoroethylene. It has the same low coefficient of friction, chemical resistance and non-stick properties as FEP products, but a higher heat resistance than FEP, allowing it to be used continuously at 260°C. PFA is almost corrosion resistant to all chemical substances and is suitable for anti-stick and chemical resistant applications in high temperature environments.

● 操作溫度範圍 Operating temperature range

- Continuous operating temperature: -65°C~260°C
- Full recovery temperature: Above 260°C
- 連續使用溫度：-65°C~260°C
- 完全收縮溫度：260°C以上

● 特性 Characteristics

- 收縮率：1.25:1
- 優異的阻燃性能
- 優異的抗化學、抗摩擦性能
- 優異的絕緣性能
- 高透明度
- 摩擦係數：0.1~0.2
- Shrink ratio: 1.25:1
- Excellent flame retardance
- Superior chemical and abrasion resistance
- Ideal insulation property
- High transparency
- Coefficient of friction: 0.1~0.2

Part Number	As supplied 收縮前 (mm)		After recovered 收縮後 (mm)		Standard Length (Meter)
產品型號	I.D. 內徑	W.T. (Nominal Size) 壁厚 (公稱尺寸)	I.D. (max) 內徑 (最大)	W.T. (Nominal Size) 壁厚 (公稱尺寸)	標準長度 (米)
Thick Type 厚型					
PFA0070	7±1.5	0.15	5.7	0.17	1
PFA0090	9±1.5	0.15	7.5	0.17	1
PFA0115	11.5±1.5	0.27	9.3	0.32	1
PFA0145	14.5±1.5	0.27	11.7	0.32	1
PFA0165	16.5±1.5	0.27	13.2	0.32	1
PFA0190	19±2	0.27	15.3	0.32	1
PFA0240	24±2	0.35	19.3	0.40	1
PFA0280	28±2	0.35	22.5	0.40	1
PFA0350	35±2	0.35	28.1	0.40	1
PFA0440	44±2.5	0.35	36.1	0.40	1
PFA0540	54±2.5	0.35	43.3	0.40	1
PFA0660	66±3	0.35	52.9	0.40	1
PFA0780	78±3	0.37	62.5	0.40	1
PFA0900	90±4	0.37	72.1	0.40	1
PFA1030	103±4	0.37	82.5	0.40	1
Thin Type 薄型					
PFATW0115	11.5±1.5	0.17	9.3	0.20	1
PFATW0145	14.5±1.5	0.17	11.7	0.20	1
PFATW0165	16.5±1.5	0.17	13.2	0.20	1
PFATW0190	19±2	0.17	15.3	0.20	1
PFATW0240	24±2	0.17	19.3	0.20	1
PFATW0280	28±2	0.17	22.5	0.20	1
PFATW0350	35±2	0.17	28.1	0.20	1
PFATW0440	44±2.5	0.17	36.1	0.20	1
PFATW0540	54±2.5	0.17	43.3	0.20	1
PFATW0660	66±3	0.27	52.9	0.30	1
PFATW0780	78±3	0.27	62.5	0.30	1

Technical Data

Property	Specification Requirement	Test Method	Typical Value
Longitudinal change	-8%~8%	ASTM D2671	Pass
Tensile strength	≥17.3MPa	ASTM D2671	≥25MPa
Elongation at break	≥150%	ASTM D2671	≥300%
Dielectric voltage withstand	AC2500V/60S No breakdown	ASTM D2671	No breakdown
Volume resistivity	≥10 ¹⁵ Ω·cm	ASTM D2671	≥10 ¹⁶ Ω·cm
Copper Corrosion	No corrosion	ASTM D2671 (158°C/168 hrs)	No corrosion
Flammability	VW-1	UL 224	Pass

Standard color : clear
Special sizes and cut pieces are available on request.

標準顏色：透明
其他尺寸，裁切，可依客戶需求另行訂製

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