



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

Taiwan Yun Lin Applied Materials Co., Ltd.

No. 361-1, Sec. 1, Shanjiao Road., Yuanlin City, Changhua County, Taiwan 510

T : +886-4-8381860 / F : +886-4-8381915 / E : sales@g-apex.com.tw

<https://www.g-apex.com.tw>



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

# THIN WALL HEAT SHRINK TUBING

薄壁熱縮套管

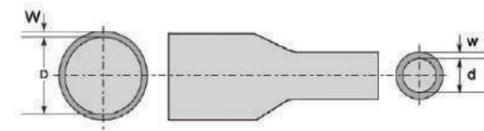


THIN WALL HEAT SHRINK TUBING

THIN WALL HEAT SHRINK TUBING



**General purpose, flame retardant heat shrink tubing**  
通用型熱縮套管



Product Dimensions  
產品規格

● 應用 Applications

G5為聚烯烴材料，符合目前環保法規，被廣泛應用於工業及商業領域，如電線接頭、金屬管、電子元件等外層絕緣保護。

G5 is a polyolefin material heat shrinkable tubing that complies with current environmental regulations. It is widely used in industrial and commercial fields, such as outer insulation protection of wire splices, metal pipes, electronic components, and so on.

● 操作溫度範圍 Operating temperature range

- Continuous operating temperature: -55°C~125°C
- Minimum shrink temperature: 70°C
- Full recovery temperature: Above 110°C
- 連續使用溫度：-55°C~125°C
- 最低收縮溫度：70°C
- 完全收縮溫度：110°C以上

● 特性 Characteristics

- 收縮率：2:1
- 非常柔軟，高阻燃性能
- 對通常的可溶性液體有抵抗力
- 優異的物理，化學和電子性能
- 符合RoHS標準
- Shrink ratio: 2:1
- Very flexible, high flame retardant
- Resistant to common solvent liquid
- Excellent physical, chemical and electrical performance
- Compliance with RoHS

Approvals / Specifications 認證 / 規範

cULUS UL224 File no. E255532, 125°C VW-1 600V

Part Number 產品型號	Size (mm) 尺寸	As supplied (mm) 收縮前		After recovered (mm) 收縮後		Standard Length (Meter) 標準長度(米)
		I.D.內徑 (D)	W.T.壁厚 (W)	I.D. (max.) 內徑(最大) (d)	W.T.(min) 壁厚(最小) (w)	
G5-0008	0.8	1.0±0.2	0.15±0.05	0.6	0.25	200
G5-0010	1.0	1.5±0.3	0.20±0.05	0.7	0.33	200
G5-0015	1.5	2.0±0.3	0.20±0.05	0.8	0.34	200
G5-0020	2.0	2.5±0.3	0.20±0.05	1.1	0.34	200
G5-0025	2.5	3.0±0.3	0.25±0.05	1.25	0.42	200
G5-0030	3.0	3.5±0.3	0.25±0.05	1.50	0.42	200
G5-0035	3.5	4.0±0.3	0.25±0.05	1.75	0.42	200
G5-0040	4.0	4.5±0.3	0.25±0.05	2.00	0.42	200
G5-0045	4.5	5.0±0.3	0.25±0.05	2.25	0.42	100
G5-0050	5.0	5.5±0.3	0.28±0.05	2.5	0.52	100
G5-0060	6.0	6.5±0.3	0.28±0.05	3.0	0.52	100
G5-0070	7.0	7.6±0.3	0.30±0.07	3.5	0.56	100
G5-0080	8.0	8.6±0.3	0.30±0.07	4.0	0.56	100
G5-0090	9.0	9.6±0.3	0.30±0.07	4.5	0.56	100
G5-0100	10.0	10.7±0.4	0.30±0.07	5.0	0.56	100
G5-0110	11.0	11.7±0.4	0.30±0.07	5.5	0.56	100
G5-0120	12.0	12.7±0.4	0.30±0.07	6.0	0.56	100
G5-0130	13.0	13.7±0.4	0.35±0.08	6.5	0.69	100
G5-0140	14.0	14.7±0.4	0.35±0.08	7.0	0.69	100
G5-0150	15.0	15.7±0.5	0.35±0.08	7.5	0.69	100
G5-0160	16.0	16.7±0.5	0.35±0.08	8.0	0.69	100
G5-0170	17.0	17.7±0.5	0.35±0.08	8.5	0.69	100
G5-0180	18.0	19.0±0.5	0.40±0.10	9.0	0.77	100
G5-0200	20.0	21.0±0.5	0.40±0.10	10.0	0.77	100
G5-0220	22.0	23.0±0.5	0.40±0.10	11.0	0.77	100
G5-0250	25.0	26.0±1.0	0.45±0.10	12.5	0.87	50
G5-0280	28.0	29.0±1.0	0.45±0.10	14.0	0.87	50
G5-0300	30.0	31.5±1.0	0.45±0.10	15.0	0.87	50
G5-0350	35.0	36.5±1.0	0.50±0.10	17.5	0.97	50
G5-0400	40.0	42.0±1.5	0.50±0.10	20.0	0.97	50
G5-0450	45.0	47.0±1.5	0.50±0.10	22.5	0.97	25
G5-0500	50.0	53.0±2.0	0.55±0.10	25.0	0.97	25
G5-0600	60.0	63.0±3.0	0.60±0.15	30.0	1.17	25
G5-0700	70.0	71.0±3.0	0.60±0.15	35.0	1.17	25
G5-0800	80.0	81.0±3.0	0.65±0.15	40.0	1.20	25
G5-0900	90.0	91.0±3.0	0.75±0.15	45.0	1.30	25
G5-1000	100	101.0±3.0	0.75±0.15	50.0	1.30	25
G5-1200	120	121.0±4.0	0.80±0.20	60.0	1.40	15
G5-1500	150	151.0±4.0	0.80±0.20	75.0	1.50	15
G5-1800	180	181.0±4.0	0.80±0.20	90.0	1.60	15

Technical Data

Property	Specification Requirement	Test Method	Typical Value
Longitudinal change	-10%~10%	ASTM D2671	Pass
Tensile strength	≥10.3MPa	ASTM D2671	≥11.3MPa
Elongation at break	≥200%	ASTM D2671	≥400%
Tensile strength after aging	70% of initial value	ASTM D2671(158°C/168 hrs)	≥80%
Elongation at break after aging	≥100%	ASTM D2671(158°C/168 hrs)	≥200%
Heat shock	No cracking	ASTM D2671(200°C/4 hrs)	No cracking
Low temperature flexibility	No cracking	ASTM D2671(-30°C/1 hr)	No cracking
Dielectric voltage withstand	AC2500V/60S No breakdown	ASTM D2671	No breakdown
Volume resistivity	≥10 <sup>14</sup> Ω·cm	ASTM D2671	≥10 <sup>14</sup> Ω·cm
Dielectric strength	≥19.7kV/mm	ASTM D2671	22 kV/mm
Flammability	VW-1	UL224	Pass

Standard colors: black, white, red, blue, yellow, and green (Other colors, special sizes, and cut pieces are available on request.)  
35mm ~ 180mm (35mm included) is without printing on the tubing (blank tube).

標準顏色：黑、白、紅、藍、黃、綠（其他顏色，其他尺寸，裁切，可依客戶需求另行訂製）  
35mm ~ 180mm (35mm含)規格無印刷字體



# THIN WALL HEAT SHRINK TUBING

## G5-CB

### Ultra thin wall, flame retardant heat shrink tubing 超薄型熱縮套管



Product Dimensions  
產品規格

#### ● 應用 Applications

比通用型G5更薄的超薄型熱縮套管，除相同於G5應用以外，超薄的壁厚可以有更低的收縮溫度及更快的收縮速度，應用於高密度空間的連接器保護和減輕對溫度敏感的元件加熱時所造成的傷害。

The ultra thin wall heat shrinkable tubing is thinner than the general purpose G5 tubing. In addition to the same G5 application, its ultra thin wall thickness has the advantage of lower shrink temperature and faster shrinkage speed. It is used for the connector protection in the high density space and reduces the damage to temperature-sensitive components when heating.

#### ● 操作溫度範圍 Operating temperature range

- Continuous operating temperature: -55°C~125°C
- Minimum shrink temperature: 60°C
- Full recovery temperature: Above 110°C
- 連續使用溫度：-55°C~125°C
- 最低收縮溫度：60°C
- 完全收縮溫度：110°C以上

#### ● 特性 Characteristics

- 收縮率：2:1
- 非常柔軟，高阻燃性能
- 低收縮溫度，快速收縮
- 優異的物理，化學和電子性能
- 符合RoHS標準
- Shrink ratio: 2:1
- Very flexible, high flame retardant
- Low shrink temperature and rapid shrinkage
- Excellent physical, chemical and electrical performance
- Compliance with RoHS

#### Approvals / Specifications 認證 / 規範

UL US UL224 File no. E255532, 125°C VW-1 300V

Part Number 產品型號	Size (mm) 尺寸	As supplied (mm) 收縮前		After recovered (mm) 收縮後		Standard Length (Meter) 標準長度(米)
		I.D. 內徑	W.T. 壁厚	I.D.(max) 內徑(最大)	W.T.(min) 壁厚(最小)	
G5-CB0010	1.0	1.4±0.2	0.13±0.05	0.7	0.20±0.1	200
G5-CB0015	1.5	1.9±0.2	0.13±0.05	0.85	0.20±0.1	200
G5-CB0020	2.0	2.4±0.2	0.13±0.05	1.0	0.22±0.1	200
G5-CB0025	2.5	2.8±0.3	0.13±0.05	1.3	0.25±0.1	200
G5-CB0030	3.0	3.4±0.3	0.13±0.05	1.5	0.28±0.1	200
G5-CB0035	3.5	3.9±0.3	0.13±0.05	1.75	0.25	200
G5-CB0040	4.0	4.4±0.3	0.15±0.05	2.0	0.25	200
G5-CB0045	4.5	5.0±0.3	0.15±0.05	2.25	0.25	100
G5-CB0050	5.0	5.5±0.3	0.15±0.05	2.5	0.25	100
G5-CB0060	6.0	6.5±0.3	0.15±0.05	3.0	0.28	100
G5-CB0070	7.0	7.5±0.3	0.15±0.05	3.5	0.28	100
G5-CB0080	8.0	8.6±0.4	0.15±0.05	4.0	0.28	100
G5-CB0090	9.0	9.6±0.4	0.15±0.05	4.5	0.28	100
G5-CB0100	10.0	10.6±0.4	0.15±0.05	5.0	0.28	100
G5-CB0110	11.0	11.6±0.4	0.18±0.05	5.5	0.28	100
G5-CB0120	12.0	12.6±0.4	0.20±0.05	6.0	0.28	100
G5-CB0130	13.0	13.6±0.4	0.20±0.05	6.5	0.30	100
G5-CB0140	14.0	14.6±0.4	0.20±0.05	7.0	0.30	100
G5-CB0150	15.0	15.6±0.5	0.20±0.05	7.5	0.32	100
G5-CB0160	16.0	16.6±0.5	0.20±0.05	8.0	0.32	100

#### Technical Data

Property	Specification Requirement	Test Method	Typical Value
Longitudinal change	-10%~10%	ASTM D2671	Pass
Tensile strength	≥10.3MPa	ASTM D2671	≥11.3MPa
Elongation at break	≥200%	ASTM D2671	≥400%
Tensile strength after aging	70% of initial value	ASTM D2671 (158°C/168 hrs)	≥80%
Elongation at break after aging	≥100%	ASTM D2671 (158°C/168 hrs)	≥200%
Heat shock	No cracking	ASTM D2671 (200°C/4 hrs)	No Cracking
Low temperature flexibility	No cracking	ASTM D2671 (-30°C/1 hr)	No Cracking
Dielectric voltage withstand	AC2500V/60S No breakdown	ASTM D2671	No breakdown
Volume resistivity	≥10 <sup>14</sup> Ω·cm	ASTM D2671	≥10 <sup>14</sup> Ω·cm
Dielectric strength	≥19.7kV/mm	ASTM D2671	22 kV/mm
Flammability	VW-1	UL224	Pass

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

標準顏色：黑色  
其他尺寸，裁切，可依客戶需求另行訂製



# THIN WALL HEAT SHRINK TUBING



## Non flame retardant heat shrink tubing 無阻燃型熱縮套管



Product Dimensions  
產品規格

### ● 應用 Applications

G1是一種薄壁、無鹵、表面光澤、有良好透光性及低溫快速收縮的非阻燃聚烯烴熱縮套管。普遍應用於電子、民生消費品的外層絕緣保護，透明色具有高透視性，能夠清晰檢視被包覆物品的狀況。

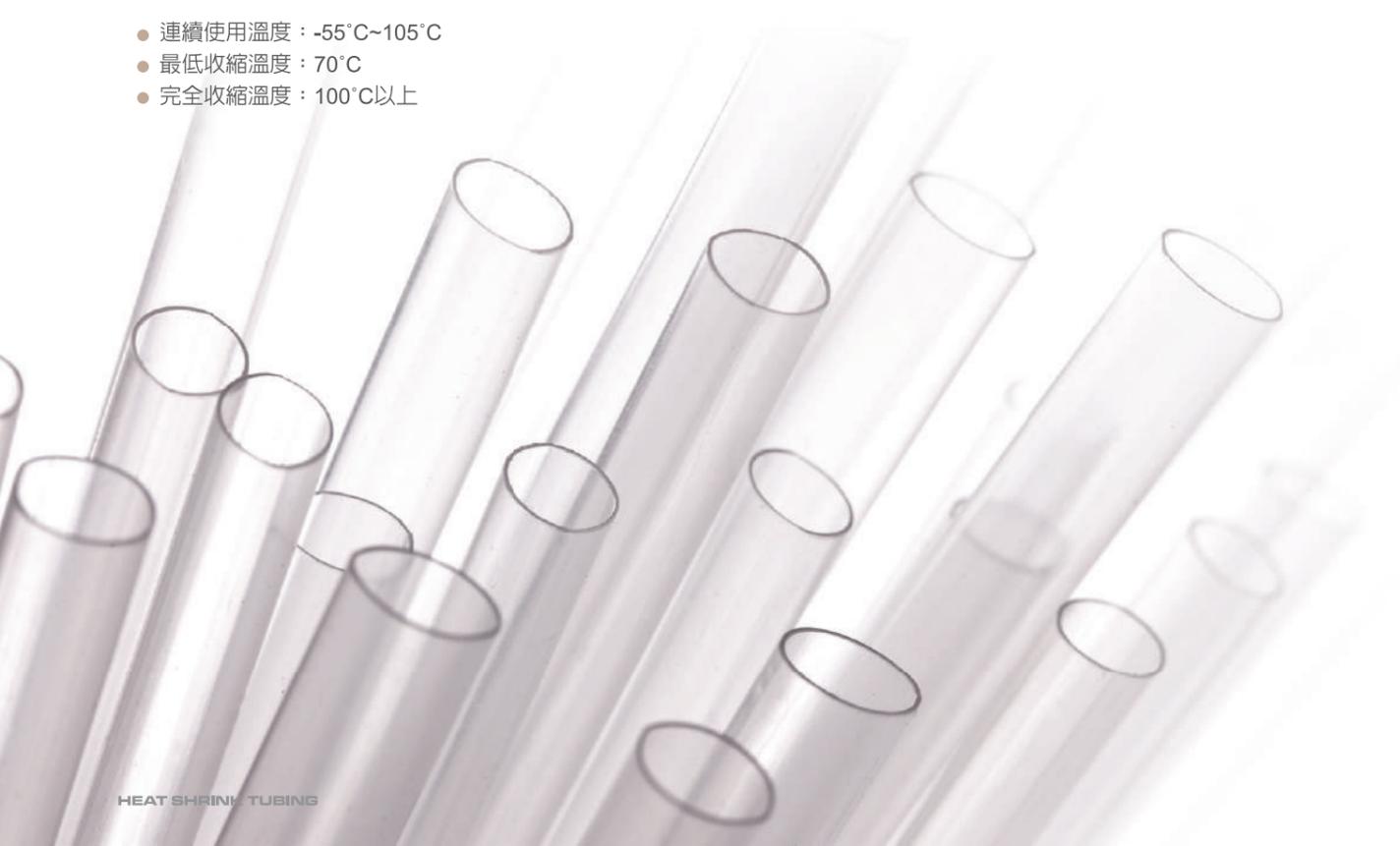
G1 is a non flame retardant polyolefin heat shrinkable tubing with the properties of thin wall, halogen free, glossy surface, good transparency and rapid shrinkage at low temperatures. It is widely used in outer insulation protection of electronics and consumer goods. The clear color makes it high transparency, so the condition of covered objects can be checked clearly.

### ● 特性 Characteristics

- 收縮率：2:1
- 低收縮溫度
- 透明度佳，柔軟
- 符合RoHS標準
- Shrink ratio: 2:1
- Low shrink temperature
- Good transparency, flexible
- Compliance with RoHS

### ● 操作溫度範圍 Operating temperature range

- Continuous operating temperature: -55°C~105°C
- Minimum shrink temperature: 70°C
- Full recovery temperature: Above 100°C
- 連續使用溫度：-55°C~105°C
- 最低收縮溫度：70°C
- 完全收縮溫度：100°C以上



Part Number 產品型號	Size (mm) 尺寸	As supplied (mm) 收縮前		After recovered (mm) 收縮後		Standard Length (Meter) 標準長度(米)
		I.D. 內徑	W.T. 壁厚	I.D.(max) 內徑(最大)	W.T. 壁厚(最小)	
G1-0010	1.0	1.5±0.3	0.20±0.05	0.7	0.33	200
G1-0015	1.5	2.0±0.3	0.20±0.05	0.8	0.34	200
G1-0020	2.0	2.5±0.3	0.20±0.05	1.1	0.34	200
G1-0025	2.5	3.0±0.3	0.25±0.05	1.25	0.42	200
G1-0030	3.0	3.5±0.3	0.25±0.05	1.5	0.42	200
G1-0035	3.5	4.0±0.3	0.25±0.05	1.75	0.42	200
G1-0040	4.0	4.5±0.3	0.25±0.05	2.0	0.42	200
G1-0045	4.5	5.0±0.3	0.25±0.05	2.25	0.42	100
G1-0050	5.0	5.5±0.3	0.28±0.05	2.5	0.52	100
G1-0060	6.0	6.5±0.3	0.28±0.05	3.0	0.52	100
G1-0070	7.0	7.6±0.3	0.30±0.07	3.5	0.56	100
G1-0080	8.0	8.6±0.3	0.30±0.07	4.0	0.56	100
G1-0090	9.0	9.6±0.3	0.30±0.07	4.5	0.56	100
G1-0100	10.0	10.7±0.4	0.30±0.07	5.0	0.56	100
G1-0110	11.0	11.7±0.4	0.30±0.07	5.5	0.56	100
G1-0120	12.0	12.7±0.4	0.30±0.07	6.0	0.56	100
G1-0130	13.0	13.7±0.4	0.35±0.08	6.5	0.69	100
G1-0140	14.0	14.7±0.4	0.35±0.08	7.0	0.69	100
G1-0150	15.0	15.7±0.5	0.35±0.08	7.5	0.69	100
G1-0160	16.0	16.7±0.5	0.35±0.08	8.0	0.69	100
G1-0170	17.0	17.7±0.5	0.35±0.08	8.5	0.69	100
G1-0180	18.0	19.0±0.5	0.40±0.10	9.0	0.77	100
G1-0200	20.0	21.0±0.5	0.40±0.10	10.0	0.77	100
G1-0220	22.0	23.0±0.5	0.40±0.10	11.0	0.77	100
G1-0250	25.0	26.0±1.0	0.45±0.10	12.5	0.87	50
G1-0280	28.0	29.0±1.0	0.45±0.10	14.0	0.87	50
G1-0300	30.0	31.5±1.0	0.45±0.10	15.0	0.87	50
G1-0350	35.0	36.5±1.0	0.50±0.10	17.5	0.97	50
G1-0400	40.0	42.0±1.5	0.50±0.10	20.0	0.97	50
G1-0450	45.0	47.0±1.5	0.50±0.10	22.5	0.97	25
G1-0500	50.0	53.0±2.0	0.55±0.10	25.0	0.97	25
G1-0600	60.0	63.0±3.0	0.60±0.15	30.0	1.17	25

### Technical Data

Property	Specification Requirement	Test Method	Typical Value
Concentricity	≥70%	ASTM D2671	≥70%
Tensile strength	≥10.3MPa	ASTM D2671	≥14.0MPa
Elongation at break	≥200%	ASTM D2671	≥400%
Dielectric voltage withstand	AC2500V/60S No breakdown	ASTM D2671	No breakdown
Volume resistivity	≥10 <sup>14</sup> Ω · cm	ASTM D2671	≥10 <sup>14</sup> Ω · cm

Standard color: clear  
標準顏色：透明  
©

# THIN WALL HEAT SHRINK TUBING

## G5-3X

### High shrink ratio heat shrink tubing 高收縮倍率熱縮套管



#### Product Dimensions 產品規格

Part Number 產品型號	Size 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)	W.T. (min) 壁厚(最小)	I.D. 內徑	W.T.(min) 壁厚(最小)	
G5-3X0030	3	1/8	3.0	0.15	1.0±0.2	0.50	200
G5-3X0060	6	1/4	6.2	0.20	2.0±0.2	0.60	100
G5-3X0090	9	3/8	9.1	0.23	3.0±0.2	0.65	100
G5-3X0120	12	1/2	12.1	0.23	4.0±0.2	0.70	100
G5-3X0180	18	3/4	18.0	0.28	6.0±0.3	0.75	100
G5-3X0250	25	1	25.0	0.32	8.0±0.3	1.00	50

#### Technical Data

Property	Specification Requirement	Test Method	Typical Value
Longitudinal change	-10%~10%	ASTM D2671	Pass
Tensile strength	≥10.3MPa	ASTM D2671	≥11.3MPa
Elongation at break	≥200%	ASTM D2671	≥400%
Tensile strength after aging	70% of initial value	ASTM D2671 (158°C/168 hrs)	≥80%
Elongation at break after aging	≥100%	ASTM D2671 (158°C/168 hrs)	≥200%
Heat shock	No cracking	ASTM D2671 (200°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 <sup>14</sup> Ω · cm	ASTM D2671	≥10 <sup>14</sup> Ω · cm
Dielectric strength	≥19.7kV/mm	ASTM D2671	22 kV/mm
Flammability	VW-1	UL224	Pass

Standard colors: black, white, red, blue, yellow, clear, and yellow-green  
Other colors, special sizes, and cut pieces are available on request.

標準顏色：黑、白、紅、藍、黃、透明、黃綠色  
其他顏色，其他尺寸，裁切，可依客戶需求另行訂製



#### 應用 Applications

G5-3X是以135°C聚烯烴材料製成的高收縮倍率軍標級熱縮套管，除一般可靠的絕緣保護外，高收縮倍率更適用於不規則的產品外徑上，提供更全面性的包覆。

G5-3X is a high shrink ratio military grade heat shrinkable tubing made of 135°C polyolefin material. In addition to the normally reliable insulation protection, the high shrink ratio is more suitable to be applied to the product with irregular outer diameters, and providing more comprehensive coverage.

#### 操作溫度範圍 Operating temperature range

- Continuous operating temperature: -55°C~135°C
- Minimum shrink temperature: 70°C
- Full recovery temperature: Above 110°C

- 連續使用溫度：-55°C~135°C
- 最低收縮溫度：70°C
- 完全收縮溫度：110°C以上

#### 特性 Characteristics

- 收縮率：3:1
- 阻燃（透明除外）
- 對普通的溶解性液體有一定的抵抗力
- 優異的物理，化學和電子性能
- 符合RoHS標準
- Shrink ratio: 3:1
- Flame retardant (colors only)
- Resistant to common solvent liquid
- Excellent physical, chemical and electrical performance
- Compliance with RoHS

#### Approvals / Specifications 認證 / 規範

UL US UL224 File no. E255532, 125°C VW-1 600V



# THIN WALL HEAT SHRINK TUBING

# G5-135

## 135°C Flame retardant heat shrink tubing

## 135°C阻燃型熱縮套管



Product Dimensions  
產品規格

### ● 應用 Applications

G5-135為環保聚烯烴材料，用於軍事、工業及商業用途，較高的耐溫等級，提供了更可靠的產品保護。應用於電線接頭、電子元件外層的絕緣保護。

G5-135 is an environmental friendly polyolefin material tubing and used in military, industrial and commercial applications. The higher temperature rating provides more reliable protection for the product covered. It can be applied to outer insulation protection of wire splices and electronic components.

### ● 操作溫度範圍 Operating temperature range

- Continuous operating temperature: -55°C~135°C
- Minimum shrink temperature: 70°C
- Full recovery temperature: Above 110°C

- 連續使用溫度：-55°C~135°C
- 最低收縮溫度：70°C
- 完全收縮溫度：110°C以上

### ● 特性 Characteristics

- 收縮率：2:1
- 耐高溫聚烯烴
- 柔軟，高阻燃性能(透明除外)
- 對通常的有溶解性的液體都有一定的抵抗性
- 優異的物理，化學和電子性能
- 符合RoHS標準
- Shrink ratio: 2:1
- High temperature resistant polyolefin
- Very flexible, high flame retardant (colors only)
- Resistant to common solvent liquid
- Excellent physical, chemical and electrical performance
- Compliance with RoHS

### Approvals / Specifications 認證 / 規範

UL224 File no. E255532, 125°C VW-1 600V

Part Number 產品型號	Size 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	
G5135-0012	1.2	3/64	1.2	0.6	0.40±0.08	200
G5135-0016	1.6	1/16	1.6	0.8	0.43±0.08	200
G5135-0024	2.4	3/32	2.4	1.2	0.51±0.08	200
G5135-0032	3.2	1/8	3.2	1.6	0.51±0.08	200
G5135-0048	4.8	3/16	4.8	2.4	0.51±0.08	100
G5135-0064	6.4	1/4	6.4	3.2	0.64±0.08	100
G5135-0095	9.5	3/8	9.5	4.8	0.64±0.08	100
G5135-0127	12.7	1/2	12.7	6.4	0.64±0.08	100
G5135-0150	15	5/8	15.2	7.5	0.77±0.08	100
G5135-0191	19.1	3/4	19.1	9.5	0.77±0.08	100
G5135-0254	25.4	1	25.4	12.7	0.89±0.12	50
G5135-0318	31.8	1 1/4	31.8	15.9	1.02±0.15	50
G5135-0381	38.1	1 1/2	38.1	19.1	1.02±0.15	50
G5135-0508	50.8	2	50.8	25.4	1.14±0.16	25
G5135-0800	80	3	76.2	38.1	1.27±0.20	25
G5135-1000	100	4	101.6	50.8	1.40±0.23	25
G5135-1200	120	5	127	63.5	1.52±0.23	15
G5135-1500	150	6	147	75	1.50	15

### Technical Data

Property	Specification Requirement	Test Method	Typical Value
Longitudinal change	-10%~10%	ASTM D2671	Pass
Tensile strength	≥10.3MPa	ASTM D2671	≥11.3MPa
Elongation at break	≥200%	ASTM D2671	≥400%
Tensile strength after aging	70% of initial value	ASTM D2671 (158°C/168 hrs)	≥80%
Elongation at break after aging	≥100%	ASTM D2671 (158°C/168 hrs)	≥200%
Heat shock	No cracking	ASTM D2671 (200°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 <sup>14</sup> Ω·cm	ASTM D2671	≥10 <sup>14</sup> Ω·cm
Dielectric strength	≥19.7kV/mm	ASTM D2671	22 kV/mm
Flammability	VW-1	UL224	Pass

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

# THIN WALL HEAT SHRINK TUBING

## G5-YG

### Yellow & Green striped heat shrink tubing 接地標示用黃綠熱縮套管



#### Product Dimensions 產品規格

#### ● 應用 Applications

黃綠相間的條紋狀套管，用於標識地線。被廣泛地應用於電線標記、顏色編碼、電子絕緣等領域。

The unique yellow-green striped color tubing is used for the ground wire identifying. It is widely used in the fields of wire marking, color coding as well as electrical insulation.

#### ● 操作溫度範圍 Operating temperature range

- Continuous operating temperature: -55°C~125°C
- Minimum shrink temperature: 70°C
- Full recovery temperature: Above 110°C

- 連續使用溫度：-55°C~125°C
- 最低收縮溫度：70°C
- 完全收縮溫度：110°C以上

#### ● 特性 Characteristics

- 收縮率:2:1
- 雙種顏色用於標識
- 顏色恒久，方便用於標記
- 符合RoHS標準
- Shrink ratio: 2:1
- Dual colors for identification
- Permanent tubing colors are conveniently used in marking.
- Compliance with RoHS

#### Approvals / Specifications 認證 / 規範

UL224 File no. E255532, 125°C VW-1 600V

Part Number 產品型號	Size 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.內徑	W.T.壁厚	I.D.(max) 內徑(最大)	W.T.(min) 壁厚(最小)	
G5-YG0015	1.5	1/16	2.0±0.3	0.20±0.05	0.8	0.36	200
G5-YG0025	2.5	3/32	3.0±0.3	0.25±0.05	1.25	0.44	200
G5-YG0030	3.0	1/8	3.5±0.3	0.25±0.05	1.50	0.44	200
G5-YG0045	4.5	3/16	5.0±0.3	0.25±0.05	2.25	0.44	100
G5-YG0060	6.0	1/4	6.5±0.3	0.28±0.05	3.0	0.56	100
G5-YG0080	8.0	5/16	8.6±0.3	0.30±0.07	4.0	0.56	100
G5-YG0090	9.0	3/8	9.6±0.3	0.30±0.07	4.5	0.56	100
G5-YG0120	12.0	1/2	12.7±0.4	0.30±0.07	6.0	0.56	100
G5-YG0160	16.0	5/8	16.7±0.5	0.35±0.08	8.0	0.69	100
G5-YG0180	18.0	3/4	19.0±0.5	0.40±0.10	9.0	0.77	100
G5-YG0250	25.0	1	26.0±1.0	0.45±0.10	12.5	0.87	50
G5-YG0300	30.0	1 1/4	31.5±1.0	0.45±0.10	15.0	0.87	50
G5-YG0400	40.0	1 1/2	41.5±1.0	0.50±0.10	20.0	0.97	50
G5-YG0500	50.0	2	51.5±1.0	0.55±0.10	25.0	0.97	25

#### Technical Data

Property	Specification Requirement	Test Method	Typical Value
Longitudinal change	-10%~10%	ASTM D2671	Pass
Tensile strength	≥10.3MPa	ASTM D2671	≥11.3MPa
Elongation at break	≥200%	ASTM D2671	≥400%
Tensile strength after aging	70% of initial value	ASTM D2671 (158°C/168 hrs)	≥80%
Elongation at break after aging	≥100%	ASTM D2671 (158°C/168 hrs)	≥200%
Heat shock	No cracking	ASTM D2671 (200°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 <sup>14</sup> Ω·cm	ASTM D2671	≥10 <sup>14</sup> Ω·cm
Dielectric strength	≥19.7kV/mm	ASTM D2671	22 kV/mm
Flammability	VW-1	UL224	Pass

Standard color: yellow-green  
Special sizes and cut pieces are available on request.

標準顏色：黃綠相間  
其他尺寸，裁切，可依客戶需求另行訂製



# THIN WALL HEAT SHRINK TUBING



## Abrasion-resistant PE heat shrink tubing 耐磨型PE熱縮套管



### Product Dimensions 產品規格

### ● 應用 Applications

GA是以由交聯聚烯烴材質製造而成，具備卓越的耐磨擦、抗化學性能，適用於彎折銅管的保護。

GA is made of cross-linked polyolefin material and has excellent abrasion and chemical resistance. It is suitable for the protection of bent copper pipes.

### ● 操作溫度範圍 Operating temperature range

- Continuous operating temperature: -55°C~105°C
- Minimum shrink temperature: 80°C
- Full recovery temperature: Above 115°C

- 連續使用溫度：-55°C~105°C
- 最低收縮溫度：80°C
- 完全收縮溫度：115°C以上

### ● 特性 Characteristics

- 收縮率：2:1
- 耐磨、耐油
- 優異的物理、化學和電子性能
- 符合RoHS標準
- Shrink ratio: 2:1
- Abrasion and oil-resistant
- Excellent physical, chemical, and electrical properties
- RoHS compliant

Part Number 產品型號	Nominal Size(mm) 公稱尺寸	As supplied (mm) 收縮前		After recovered (mm) 收縮後		Standard Length (Meter) 標準長度(米)
		I.D.(內徑(D))	W.T.(Nominal Size) 壁厚(公稱尺寸)	I.D.(max) 內徑(最大)	W.T. 壁厚	
GA-0030	3.0	3.6±0.3	0.15	1.8	0.40±0.15	200
GA-0035	3.5	4.1±0.3	0.15	2.0	0.40±0.15	200
GA-0040	4.0	4.6±0.3	0.15	2.3	0.40±0.15	200
GA-0050	5.0	5.9±0.3	0.15	2.9	0.40±0.15	100
GA-0060	6.0	6.5±0.3	0.20	3.5	0.50±0.15	100
GA-0070	7.0	7.5±0.3	0.20	4.2	0.50±0.15	100
GA-0080	8.0	8.5±0.3	0.20	4.7	0.50±0.15	100
GA-0090	9.0	9.5±0.3	0.20	5.4	0.50±0.15	100
GA-0100	10.0	10.5±0.4	0.20	6.0	0.50±0.15	100
GA-0110	11.0	11.5±0.4	0.20	7.0	0.50±0.15	100
GA-0120	12.0	12.4±0.4	0.23	7.6	0.60±0.15	100
GA-0130	13.0	13.4±0.4	0.23	8.0	0.60±0.15	100
GA-0140	14.0	14.4±0.4	0.23	9.0	0.60±0.15	100
GA-0150	15.0	15.4±0.4	0.23	10.0	0.60±0.15	100
GA-0160	16.0	16.4±0.4	0.23	10.5	0.60±0.15	100
GA-0180	18.0	18.4±0.4	0.23	11.5	0.60±0.15	100
GA-0200	20.0	20.4±0.4	0.23	13.0	0.60±0.15	100
GA-0220	22.0	22.4±1.0	0.23	14.0	0.60±0.15	100
GA-0250	25.0	25.5±1.0	0.23	15.0	0.60±0.15	50

### Technical Data

Property	Specification Requirement	Test Method	Typical Value
Tensile strength	≥10.4MPa	ASTM D2671	≥16.9MPa
Elongation at break	≥200%	ASTM D2671	≥362%
Dielectric voltage withstand	AC2500V/60S No breakdown	ASTM D2671	No breakdown
Volume resistivity	≥10 <sup>16</sup> Ω·cm	ASTM D2671	≥10 <sup>16</sup> Ω·cm

Standard color: black (Other specifications and colors can be customized.)

標準顏色：黑(其他規格顏色可訂製)



# THIN WALL HEAT SHRINK TUBING

## YLPET

### PET heat shrink tubing PET熱縮套管



Product Dimensions  
產品規格

#### ● 應用 Applications

YPET由聚對苯二甲酸乙二酯的材質製成，在-40°C~125°C條件下具有優異的防老化、耐溫、防破裂性能。由環保材料製作而成，符合RoHS標準。應用於包覆電池、電子元件、民生用品等。

YPET is made of polyethylene terephthalate and has excellent anti-aging, temperature, and crack resistance at -40°C~125°C. Made of environmentally friendly materials and is compliant with the RoHS standard. Used to cover batteries, electronic components, consumer goods, and so on.

#### ● 操作溫度範圍 Operating temperature range

- Continuous operating temperature : -40°C~125°C
- Minimum shrink temperature : 60°C
- Full recovery temperature : Above 125°C
- 連續使用溫度 : -40°C~125°C
- 最低收縮溫度 : 60°C
- 完全收縮溫度 : 125°C以上

#### ● 特性 Characteristics

- 收縮率 : 2:1
- 操作溫度高至125°C
- 對大部分的酸、油有抗腐蝕性
- 無鹵、環保、阻燃
- Shrink ratio : 2:1
- Operating temperature is up to 125°C
- Corrosion resistant to most acids and oils
- Halogen free, environmentally friendly and flame retardant

#### Approvals / Specifications 認證 / 規範

UL224 File no. E469056



Part Number	Nominal Size (mm)	Lay-flat width (mm)	W.T. (mm)	Horizontal shrink ratio	Vertical shrink ratio
產品型號	公稱尺寸	折徑	壁厚	橫向收縮率(%)	縱向收縮率(%)
YPET0030	3	5.6±0.2	0.08±0.015	48±4	8±3
YPET0040	4	7.1±0.2	0.08±0.015	48±4	8±3
YPET0050	5	9.0±0.2	0.08±0.015	48±4	8±3
YPET0060	6	10.6±0.2	0.08±0.015	48±4	8±3
YPET0063	6.3	11.0±0.2	0.08±0.015	48±4	8±3
YPET0080	8	13.9±0.2	0.10±0.02	48±4	8±3
YPET0100	10	16.9±0.3	0.10±0.02	48±4	8±3
YPET0120	12	20.4±0.3	0.10±0.02	48±4	8±3
YPET0125	12.5	21.2±0.3	0.10±0.02	48±4	8±3
YPET0130	13	21.8±0.3	0.10±0.02	45±4	8±3
YPET0145	14.5	24.1±0.3	0.10±0.02	45±4	8±3
YPET0160	16	26.7±0.3	0.11±0.02	45±4	8±3
YPET0180	18	29.8±0.3	0.11±0.02	45±4	8±3
YPET0200	20	32.9±0.3	0.11±0.02	45±4	8±3
YPET0220	22	36.2±0.3	0.11±0.02	45±4	8±3
YPET0250	25	41.1±0.5	0.11±0.02	45±4	8±3
YPET0300	30	49.1±0.5	0.11±0.02	45±4	8±3
YPET0350	35	56.9±0.5	0.11±0.02	45±4	8±3
YPET0400	40	64.0±1.5	0.13±0.03	45±4	8±3
YPET0450	45	74.0±1.5	0.15±0.03	40±5	15±5
YPET0500	50	84.5±1.5	0.20±0.03	40±5	15±5
YPET0635	63.5	106.5±1.5	0.20±0.03	40±5	15±5
YPET0760	76	125.5±1.5	0.20±0.03	40±5	15±5
YPET0890	89	145.5±1.5	0.20±0.03	40±5	15±5

#### Technical Data

Property	Specification Requirement	Test Method
Tensile strength	≥10 <sup>7</sup> N/m <sup>2</sup>	ASTM D2671
Elongation at break	≥62.0%	ASTM D2671
Water absorption	≤2.0%	ASTM D570
Dielectric strength	≥15kV/mm	ASTM D2671
Volume resistivity	≥10 <sup>14</sup> Ω·cm	ASTM D2671

Standard color : black

標準顏色 : 黑



THIN WALL HEAT SHRINK TUBING



**150°C Diesel resistant elastomeric heat shrinkable tubing**

**150°C耐油熱縮套管**



Product Dimensions  
產品規格

● 應用 Applications

DR產品是一款應用廣泛的耐油橡膠熱縮套管，由輻照交聯彈性體橡膠材質製成，適合在車用機油及潤滑油的環境下提供電線電纜的絕緣保護。

The DR product is a widely used diesel resistant rubber heat shrinkable tubing. It is made of radiation cross-linked rubber elastomers, and is suitable for providing insulation protection for wires and cables in the environment of motor oils and lubricating oils.

● 特性 Characteristics

- 收縮率：2:1
- 優異的耐油、耐化學性能
- 阻燃
- 可靠的耐磨性能
- Shrink ratio: 2:1
- Excellent oil and chemical resistance
- Flame retardant
- Reliable abrasion resistance

● 操作溫度範圍 **Operating temperature range**

- Continuous operating temperature: -75°C~150°C
- Minimum shrink temperature: 100°C
- Full recovery temperature: Above 150°C
- 連續使用溫度：-75°C~150°C
- 最低收縮溫度：100°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	
DR0032	3.2	1/8	3.2	1.6	0.76±0.15	100
DR0048	4.8	3/16	4.8	2.4	0.84±0.15	100
DR0064	6.4	1/4	6.4	3.2	0.89±0.15	100
DR0095	9.5	3/8	9.5	4.8	1.02±0.20	50
DR0127	12.7	1/2	12.7	6.4	1.22±0.20	50
DR0191	19.1	3/4	19.1	9.5	1.45±0.28	30
DR0254	25.4	1	25.4	12.7	1.78±0.28	30
DR0381	38.1	1 1/2	38.1	19.0	2.40±0.41	30
DR0508	50.8	2	50.8	25.4	2.40±0.41	25

Technical Data

Property	Specification Requirement	Test Method	Typical Value
Tensile strength	≥10.3MPa	ASTM D2671	≥13MPa
Elongation at break	≥250%	ASTM D2671	≥350%
Heat shock	No cracking	ASTM D2671 (200°C/4 hrs)	No cracking
Low temperature flexibility	No cracking	ASTM D2671 (-55°C/4 hrs)	No cracking
Tensile strength after aging	70% of initial value	ASTM D2671 (150°C/168 hrs)	≥70%
Elongation at break after aging	≥200%	ASTM D2671 (150°C/168 hrs)	≥300%
Dielectric voltage withstand	AC2500V/60S No breakdown	ASTM D2671	No breakdown
Dielectric strength	≥11.9kV/mm	ASTM D2671	≥16kV/mm
Volume resistivity	≥10 <sup>9</sup> Ω·cm	ASTM D2671	≥10 <sup>10</sup> Ω·cm
Copper corrosion	No corrosion	ASTM D2671 (158°C/168 hrs)	No corrosion
Flammability	Self extinguishing within 1 minute after fire source removed	UL 224	Pass
Fluid resistance (23°C/24 hrs)			
Tensile strength	≥10.3MPa	ASTM D2671	≥12MPa
Elongation at break	≥200%	ASTM D2671	≥300%
Dielectric strength	≥7.9kV/mm	ASTM D2671	≥12kV/mm

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

標準顏色：黑色  
其他尺寸，裁切，可依客戶需求另行訂製



## PVC熱収縮チューブ

# YLPVC

PVC Environment friendly heat shrinkable tubing  
PVC熱収縮チューブ

### アプリケーション：

PVCは優れた電気絶縁性と低温収縮特性があり、電池やコンデンサー、電線の端末、接合部などの絶縁および保護に使用することができます。

### 特徴：

収縮率：2:1  
低温で収縮可能  
耐溶剤性に優れる  
物理的、化学的および電气的性能に優れる  
ROHS 2.0・REACHに適合

### 製品仕様：

連続使用温度範囲：0°C～105°C  
収縮開始温度：50°C  
最低完全収縮温度：100°C

### 認証/規範：

UL224  
ROHS  
REACH

### 製品規格表

製品型番	寸法 (mm)	折径 (mm)	肉厚 (mm)	横方向収縮率 (%)	縦方向収縮率 (%)	標準長 (m)
YPVC0040	Φ4	7.3±0.2	0.090±0.010	48±4	6.0±2.0	100
YPVC0050	Φ5	9.2±0.2	0.090±0.010	48±4	6.0±2.0	200
YPVC0063	Φ6.3	11.1±0.2	0.090±0.010	48±4	6.0±2.0	200
YPVC0080	Φ8	14.1±0.2	0.095±0.010	48±4	6.0±2.0	200
YPVC0100	Φ10	17.1±0.2	0.10±0.010	48±4	6.0±2.0	200
YPVC0125	Φ12.5	21.6±0.2	0.10±0.015	48±4	7.0±2.0	200
YPVC0130	Φ13	22.1±0.3	0.10±0.015	48±4	7.0±2.0	200
YPVC0160	Φ16	27.1±0.3	0.11±0.015	48±4	7.0±2.0	200
YPVC0180	Φ18	30.1±0.3	0.11±0.015	48±4	7.0±2.0	200
YPVC0200	Φ20	33.2±0.3	0.12±0.015	48±4	7.0±2.0	200
YPVC0220	Φ22	36.3±0.3	0.12±0.015	48±4	7.0±2.0	200
YPVC0250	Φ25	41.4±0.4	0.14±0.020	48±4	9.5±2.5	200
YPVC0300	Φ30	50.0±0.6	0.14±0.020	48±4	9.5±2.5	200
YPVC0350	Φ35	57.4±0.7	0.14±0.020	48±4	9.5±2.5	200
YPVC0400	Φ40	66.2±1.0	0.14±0.020	45±5	9.5±2.5	100
YPVC0450	Φ45	74.5±1.5	0.18±0.030	45±5	5.0±5.0	100
YPVC0500	Φ50	84.0±1.5	0.30±0.050	45±5	5.0±5.0	100
YPVC0635	Φ63.5	106.0±1.5	0.30±0.050	45±5	5.0±5.0	100
YPVC0760	Φ76	124.0±2.0	0.30±0.050	45±5	5.0±5.0	100
YPVC0890	Φ89	145.0±2.0	0.30±0.050	45±5	5.0±5.0	100

### 物性値

特性項目	仕様要求値	試験方法	特性値
破断伸び (500mm/min)	≥42%	ASTM D 638	≥42%
引張強度 (500mm/min)	≥10 <sup>7</sup> N/m <sup>2</sup>	ASTM D 638	≥10 <sup>7</sup> N/m <sup>2</sup>
吸水率	≤2.0%	ASTM D 570	≤2.0%
絶縁耐力	≥15kV/mm	ASTM D 149	≥15kV/mm
体積抵抗率	≥10 <sup>14</sup> Ω·cm	ASTM D 257	≥10 <sup>14</sup> Ω·cm

標準色：黒（その他の色はお問い合わせください）





## PVC熱収縮チューブ

# YLPVC

PVC Environment friendly heat shrinkable tubing  
PVC熱収縮チューブ

### アプリケーション：

PVCは優れた電気絶縁性と低温収縮特性があり、電池やコンデンサー、電線の端末、接合部などの絶縁および保護に使用することができます。

### 特徴：

収縮率：2:1  
低温で収縮可能  
耐溶剤性に優れる  
物理的、化学的および電気的性能に優れる  
ROHS 2.0・REACHに適合

### 製品仕様：

連続使用温度範囲：0℃～105℃  
収縮開始温度：50℃  
最低完全収縮温度：100℃

### 認証/規範：

ROHS 2.0  
REACH

\*本製品はUL非認証品ですが、  
UL94 V-0相当材料を使用しています。

### 製品規格表

製品型番	寸法 (mm)	折径 (mm)	肉厚 (mm)	横方向収縮率 (%)	縦方向収縮率 (%)	標準長 (m)
YPVC0040	Φ4	7.2±0.5	0.09±0.02	50±5	15±5	200
YPVC0050	Φ5	9.5±0.5	0.09±0.02	50±5	15±5	200
YPVC0060	Φ6	10.5±0.5	0.10±0.02	50±5	15±5	200
YPVC0075	Φ7.5	12.5±0.5	0.10±0.02	50±5	15±5	200
YPVC0090	Φ9	15.5±0.5	0.10±0.02	50±5	15±5	200
YPVC0120	Φ12	20.3±0.5	0.10±0.02	50±5	15±5	200
YPVC0145	Φ14.5	25.5±0.5	0.10±0.02	50±5	15±5	200
YPVC0180	Φ18	30.2±0.5	0.10±0.02	50±5	15±5	200
YPVC0250	Φ25	41.5±0.5	0.10±0.02	50±5	15±5	200
YPVC0300	Φ30	50.5±0.5	0.13±0.02	50±5	15±5	150
YPVC0350	Φ35	62.5±0.5	0.13±0.02	50±5	15±5	150
YPVC0440	Φ44	70±0.5	0.12±0.02	50±5	15±5	200
YPVC0500	Φ50	80±0.5	0.12±0.02	50±5	15±5	200
YPVC0570	Φ57	90±0.5	0.12±0.02	50±5	15±5	200
YPVC0635	Φ63.5	100±1.0	0.12±0.02	50±5	15±5	200
YPVC0760	Φ76	120±1.0	0.12±0.02	50±5	15±5	200
YPVC0890	Φ89	150±1.0	0.12±0.02	50±5	15±5	200
YPVC1000	Φ100	170±1.0	0.12±0.02	50±5	15±5	200
YPVC1200	Φ120	190±1.0	0.15±0.02	50±5	15±5	150

### 物性値

特性項目	仕様要求値	試験方法	特性値
破断伸び (500mm/min)	≥42%	ASTM D 638	≥42%
引張強度 (500mm/min)	≥10 <sup>7</sup> N/m <sup>2</sup>	ASTM D 638	≥10 <sup>7</sup> N/m <sup>2</sup>
吸水率	≤2.0%	ASTM D 570	≤2.0%
絶縁耐力	≥15kV/mm	ASTM D 149	≥15kV/mm
体積抵抗率	≥10 <sup>14</sup> Ω·cm	ASTM D 257	≥10 <sup>14</sup> Ω·cm



標準色：黒、赤、青、緑、白、黄、透明

また特別色：透明赤なども特別対応可能です。(その他の色はお問い合わせください)



# YLPVC 製品見本

PVC熱収縮チューブ (UL 非認証品)



No.	色	コード	現品
1	白	WT	
2	青	BU	
3	赤	RD	
4	黄	YL	
5	緑	GN	
6	黄緑	YGN	
7	オレンジ	OG	
8	ピンク	PK	
9	紫	PLE	
10	グレー	GY	
11	透明	CR	
12	透明/青	CR/BU	
13	透明/赤	CR/RD	
14	透明/緑	CR/GN	
15	透明/黄	CR/YL	
16	透明/オレンジ	CR/OG	

備考:その他の色はお問い合わせください

黒 / Bk

日本雲林株式会社 営業部

Tel: 0270-75-4741

Fax: 0270-75-4761

Mail: info@g-apex.co.jp

HP: www.g-apex.co.jp



