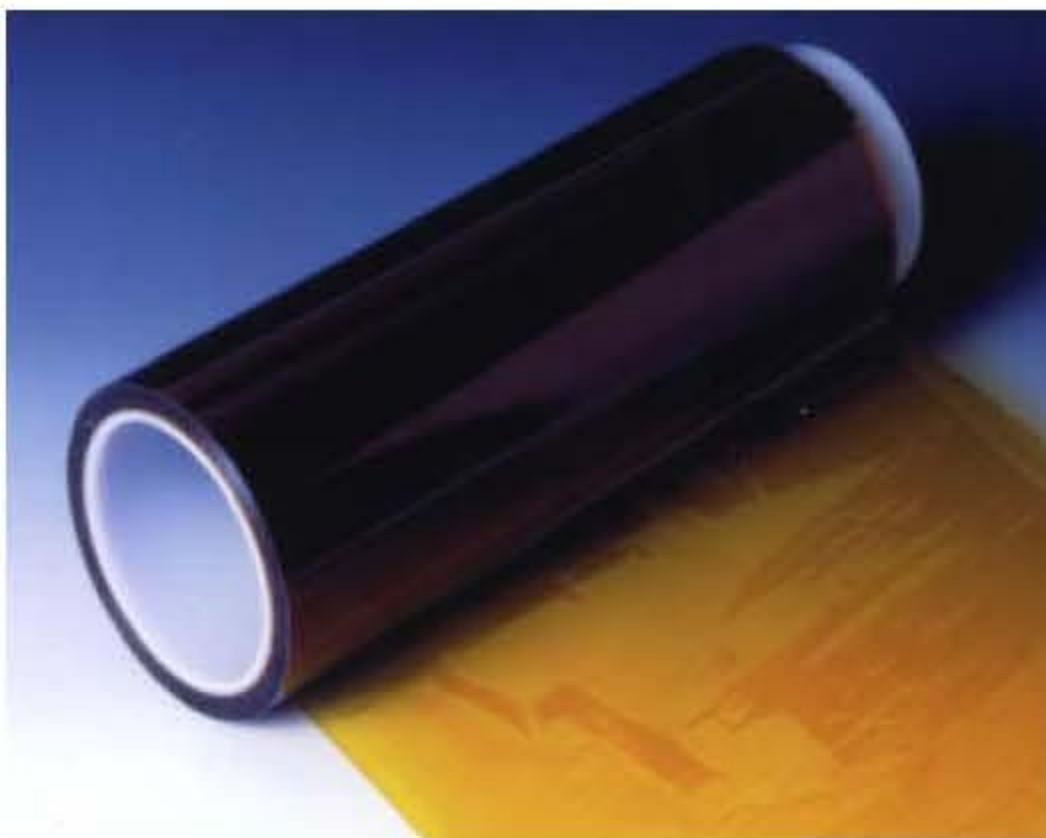


專業。品質。服務

台灣谷登企業有限公司
谷登綠色科技有限公司
Taiwan Golden ENT. CO., LTD



住址：高雄縣鳳山市青年路二段 600 號

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傳真：886-7-7670313

網址：www.twgold.com.tw

E-mail：cyndi@twgold.com.tw



Box, Mini Box and AMP-BLADE Connectors

- MIL-C-55302 qualified
- Quad redundant contacts in Box and Mini Box connectors provide reliability in vibratory applications
- Board-to-board & wire-to-board capability
- Centerlines as close as 1.27 [.050]

Catalog 1308940



Z-PACK 2mm HM Connectors

- High density, high-speed backplane connector
- Five- and eight-row configurations
- 2mm x 2mm circuit grid
- Signal, coaxial, power, and fiber optic contacts
- CompactPCI applications

Catalog 1307612



Fine Pitch Board-to-Board SMT Connectors

- 0.8mm Free Height (FH) Connector for parallel board stacking; spacing from 5 [.197] to 16 [.630]
- 1.0mm FH (IEEE 1386) Connector for parallel board stacking; spacing from 8 [.315] to 15 [.591]
- MICTOR Connector for high-speed interconnects; 76 signal lines per inch; redundant contact interface for high reliability

Catalog 1307612



MIL-C-24308 D-Subminiature Connectors

- Lower profile board-mount designs
- Space qualified versions
- Blindmate shell for improved alignment solutions
- Combination power/RF insert arrangements
- ULTRA-LITE Connectors provide 15-20% weight savings and enhanced EMI/RFI performance

Catalog 1308940



High Current

- Wide range of pin and socket sizes available
- Multi-point contact design utilizing Louvertac Contact Bands
- AMPOWER Multi Pin Plus Connector offered in current ratings from signal to 150 amps

Catalog 65141



Spring Probe Connectors

- Customized designs for specific applications
- High performance and high cycle life
- Low profile and high density configurations
- Through hole and SMT
- Ideal for input-output/docking and board-to-board applications

Catalog 1307920



KILOVAC

High Voltage Relays & Contactors

- Vacuum and gas-filled enclosures
- Up to 70kV isolation
- Carry from milliamps to 110 amps
- 1 form A (SPST-NO) to 4 form C (4PDT) arrangements
- PC board and panel mount types

Catalog 1309313



HARTMAN

Power Contactors, Sensors, Monitors & Distribution Systems

- Hermetic or gasket seal
- Repairable models
- High shock, vibration and acceleration types
- Conventional, plug-in or bus bar mounting
- Easily tailored to meet specific customer requirements

Catalog 1309314



CII

High Performance Relays & Solenoids

- TO-5, .100 [2.54] grid, 1/5 size, 1/10 size, half-size and full-size relays
- Low level to 10 amp ratings
- 1 form C (SPDT) to 6 form C (6PDT) arrangements
- Latching & non-latching types
- Time delay relays with solid state or electromechanical output
- Voltage, frequency and phase sensors
- Custom-designed solenoids

**Catalog 1309311
1309312**



P&B

Thermal Circuit Breakers

- Current ratings from .25 to 50 amps
- Push-to-reset only and switchable types
- Various mounting and termination options
- Series trip function

Catalog 1308242



HARTMAN

Electrical Control Panels & Assemblies

- Turn-key design, qualification and manufacturing
- 28VDC, 270VDC, and 115 VAC capability
- Currents up to 500 amps per pole
- Over 60 years experience in aerospace systems solutions

Catalog 1309314



AGASTAT, P&B

General Purpose & Time Delay Relays

- General purpose, rotary and time delay types
- Maximum contact ratings to 10 amps
- 1 form C (SPDT) to 24 form C (24PDT) arrangements
- Hermetically sealed enclosures available
- AC and DC coil options

**Catalog 1308242
1308392**

ZEROHAL ZH2 and ZH4 Tubing

Polyolefin, Flexible, Heat-Shrinkable, Flame Retarded

Raychem 新研發全球唯一零鹵素熱縮套管

完全符合 ROHS 規範

100%通過 UL 測試, 合乎 UL VW-1, 224 規範, UL number is E35586

分為厚壁和薄壁, 耐熱 125 度耐電壓 600V 和 300V 二種,

為現有熱收縮套管唯一零鹵素和通過 UL 認證的環保套管。



ZH2 TUBING DIMENSIONS, METRIC

Size	As Supplied (mm)		As Recovered (mm)	
	Inside Diameter	Wall Thickness	Inside Diameter	Wall Thickness
		Nominal	Maximum	Minimum
0.8/0.4	1.2 ± 0.2	0.2	0.4	0.33
1.0/0.5	1.5 ± 0.2	0.2	0.5	0.33
1.5/0.75	2.1 ± 0.2	0.2	0.75	0.34
2.0/1.0	2.6 ± 0.2	0.25	1	0.43
2.5/1.25	3.1 ± 0.2	0.25	1.25	0.43
3.0/1.5	3.6 ± 0.2	0.25	1.5	0.43
3.5/1.75	4.1 ± 0.3	0.25	1.75	0.43
4.0/2.0	4.6 ± 0.3	0.25	2	0.43
5.0/2.5	5.6 ± 0.3	0.3	2.5	0.56
6.0/3.0	6.6 ± 0.3	0.3	3	0.56
7.0/3.5	7.6 ± 0.3	0.3	3.5	0.56
8.0/4.0	8.6 ± 0.3	0.3	4	0.56
9.0/4.5	9.6 ± 0.3	0.3	4.5	0.56
10.0/5.0	10.4 ± 0.3	0.3	5	0.56
11.0/5.5	11.4 ± 0.3	0.3	5.5	0.56
12.0/6.0	12.7 ± 0.3	0.3	6	0.56
13.0/6.5	13.5 ± 0.3	0.35	6.5	0.66
14.0/7.0	14.4 ± 0.4	0.35	7	0.68
15.0/7.5	15.7 ± 0.4	0.35	7.5	0.68
16.0/8.0	16.9 ± 0.4	0.35	8	0.68
18.0/9.0	19.0 ± 0.4	0.4	9	0.76
20.0/10.0	21.4 ± 0.4	0.4	10	0.76
22.0/11.0	23.2 ± 0.4	0.45	11	0.89
25.0/12.5	26.8 ± 0.4	0.45	12.5	0.89
27.0/12.5	28.2 ± 0.5	0.45	12.5	0.89
28.0/14.0	30.0 ± 0.5	0.45	14	0.89
30.0/15.0	32.1 ± 0.5	0.45	15	0.89

ZH4 TUBING DIMENSIONS, METRIC

Size	As Supplied (mm)		As Recovered (mm)	
	Inside Diameter	Wall Thickness	Inside Diameter	Wall Thickness
		Nominal	Maximum	Minimum
0.6/0.3	0.95 ± 0.25	0.1	0.3	0.25
0.8/0.4	1.2 ± 0.25	0.1	0.4	0.25
1.0/0.5	1.4 ± 0.25	0.1	0.5	0.25
1.5/0.75	1.9 ± 0.25	0.1	0.75	0.25
2.0/1.0	2.3 ± 0.25	0.1	1	0.25
2.5/1.25	2.8 ± 0.25	0.15	1.25	0.25
3.0/1.5	3.3 ± 0.25	0.15	1.5	0.25
3.5/1.75	3.8 ± 0.25	0.15	1.75	0.25
4.0/2.0	4.4 ± 0.25	0.15	2	0.25
5.0/2.5	5.5 ± 0.25	0.15	2.5	0.25
6.0/3.0	6.5 ± 0.4	0.15	3	0.28
7.0/3.5	7.5 ± 0.4	0.15	3.5	0.28
8.0/4.0	8.5 ± 0.4	0.15	4	0.28
9.0/4.5	9.5 ± 0.4	0.15	4.5	0.28
10.0/5.0	10.5 ± 0.5	0.15	5	0.28

SCOPE: This specification covers the requirements for halogen-free, flexible electrically insulating, extruded tubing whose diameter will reduce to a predetermined size upon the application of heat in excess of 90°C (194°F). The tubing is essentially free of halogens.

ZH2, a standard wall, 600 V, 125°C, VW-1 rated, UL recognized tubing meeting the requirements of UL 224.

ZH2 also meets the requirements of Standard C22.2 No. 198.1 and is CSA certified.

ZH4, a thin wall very flexible, 300 V, 125°C, VW-1 rated, UL recognized tubing meeting the requirements of UL 224.

ZH4 also meets the requirements of Standard C22.2 No. 198.1 and is CSA certified with a 150 V rating.

Gloden Electronics/Raychem Heat shrinkable tubing

Raychem 熱縮套管比較表		聚 乙 烯	氟 塑 料	橡 膠	工 作 溫 度 (°C)	最 低 收 縮 (°C)	最 高 收 縮 (°C)	收 縮 比	產 品 尺 寸 範 圍 (mm)	顏 色 黑	透 明	阻 燃	U L 2 2 4	V W -1	C S A	醫 療 用
薄壁 單層 非常柔軟	Versafit V2	●			-45~125	70	90	2:1	1-30	●		●	●	●	●	
	Versafit V4	●			-45~125	70	90	2:1	1-25	●		●	●	●	●	
柔軟	CGPT	●			-40~135	80	120	2:1	1.6-38	●	●	●	●		●	
	RNF-100	●			-55~135	95	121	2:1	1.2-127	●	●	●	●		●	
	RNF-150		●		-55~150	110	150	2:1	1.2-25	●		●	●	●		
	RNF-3000	●			-55~135	80	120	3:1	1.5-39	●	●	●	●		●	
	RT-375		●		-55~150	125	150	2:1	1.2-25		●	●	●	●		
	TFE		●		-67~250		340	1.8:1	0.8-11.9		●	●				
	TFE-R		●		-67~250		340	3.2:1	2-32		●	●				
	半硬	CRN	●			-55~135	110	135	2:1	1.2-25	●	●	●	●		●
RW-175			●		-55~175	155	175	2:1	1.2-38	●	●	●	●	●	●	
雙層(熱熔膠合密封膠)	ATUM	●			-55~110	80	110	3:1	3.2-52	●	●	●	●			
	ATUM	●			-55~110	80	110	4:1	3.2-52	●	●	●				
	DWP-125	●			-40~110	80	125	3:1	3.2-25	●		●	●		●	
	HTAT	●			-55~125	80	110	4:1	4-48	●		●				
	TAT-125	●			-55~110	95	121	2:1	3.2-38	●	●	●	●			
	ES-1000	●			-40~130	110	135	4:1	5.7-17.8		●		●			
	ES-2000	●			-40~130	110	135	4:1	5.7-17.8	●		●	●			
	SCL	●			-55~110	125	135	3:1	3.2-25	●			●	●		
醫療級 柔軟	MT2000	●			-40~105	110	140	2.5:1	1-10	●	●					●
	MT3000		●		-55~150	110	150	2:1	1.6-25	●						●
	MT5000	●			-70~105	90	110	2:1	1.6-25	●	●					●
	半硬 MT1000		●		-55~175	155	175	2:1	1.6-25	●	●					●
中等壁厚 單層管	DR-25			●	-55~150	150	175	2:1	3.2-76	●		●				
	NT NT-FR			●	-70~121	90	135	1.75:1	3.2-76	●		●	●			
	RT-555			●	-65~200	150	220	2:1	3.2-51	●		●		●		
	SFR			●	-75~180	135	175	1.75:1	6.4-51	●		●				
	SRFR			●	-75~200	135	175	1.75:1	2.9-55	●				●		
	Viton			●	-40~200	100	175	2:1	3.2-51	●		●				
厚壁 單層	BSTS & GPT	●			-55~90	90	121	3:1	7.6-114	●		●				
	HF	●			-55~90	80	121	3:1	10.2-69	●		●				
	HR & HSR	●			-55~90	90	121	5.6:1	15-102	●		●				
	XFFR & ZHS	●			-30~200	70	121	3:1	10.2-76	●		●				
	雙層 SST & AST	●			-55~90	90	121	3:1	7.6-11	●		●				

良維熱收縮套管

Longwell Heat-shrinkable tubing

1. 良維熱收縮套管適用市面上各種需絕緣產品。
2. 產品符合防火測試 UL VW-1，耐熱性和極好的機械和電特性的要求。
3. 在貯存期間完全沒有自然的收縮情況。
4. 產品經 SGS 檢測不含 (PBBOS), (PBBES), (PBBS)。
5. 適用於電子儀器導線的絕緣。 2. 連結兩端的電線的絕緣和保護。
6. 電阻器，冷凝器和其他部分的絕緣和保護。



料號：	LHS-125FR / LHS-125FR-4	UL認證號碼：E56118	CSA認證號碼：LR38712
產品材質：	PE聚合物(POLYOLEFIN)		
產品特性：	耐電壓：600V / 300V，耐溫：-30°C~125°C，最低收縮溫度：90°C		
用途：	適用於線束的絕緣與電子零件的包覆以及電線的標示或標色等		
顏色：	標準色：黑色，其他顏色亦可訂製		

良維厚管

No.	料號	收縮前		收縮後		標準長度 M
		內徑	壁厚	內徑	壁厚	
		mm	mm	mm	mm	
1	LHS-125FR- 0.8	1.25±0.15	0.1±0.08	0.4	0.33	200
2	LHS-125FR- 1.0	1.5±0.2	0.2±0.08	0.5	0.33	200
3	LHS-125FR- 1.5	2.1±0.2	0.2±0.08	0.75	0.36	200
4	LHS-125FR- 2.0	2.7±0.2	0.25±0.09	1	0.44	200
5	LHS-125FR- 2.5	3.2±0.2	0.25±0.09	1.25	0.44	200
6	LHS-125FR- 3.0	3.7±0.3	0.25±0.09	1.5	0.44	200
7	LHS-125FR- 3.5	4.2±0.3	0.25±0.09	1.75	0.44	200
8	LHS-125FR- 4.0	4.7±0.3	0.25±0.09	2	0.44	200
9	LHS-125FR- 5.0	5.7±0.3	0.28±0.10	2.5	0.56	100
10	LHS-125FR- 6.0	6.7±0.4	0.28±0.10	3	0.56	100
11	LHS-125FR- 7.0	7.7±0.4	0.27±0.10	3.5	0.56	100
12	LHS-125FR- 8.0	8.7±0.4	0.27±0.10	4	0.56	100
13	LHS-125FR- 9.0	9.7±0.4	0.27±0.10	4.5	0.56	100
14	LHS-125FR-10.0	10.7±0.4	0.27±0.10	5	0.56	100
15	LHS-125FR-11.0	11.7±0.4	0.27±0.10	5.5	0.56	100
16	LHS-125FR-12.0	12.7±0.4	0.27±0.10	6	0.56	100
17	LHS-125FR-13.0	13.7±0.4	0.33±0.12	6.5	0.69	50
18	LHS-125FR-14.0	14.7±0.4	0.33±0.12	7	0.69	50
19	LHS-125FR-15.0	15.7±0.5	0.33±0.12	7.5	0.69	50
20	LHS-125FR-16.0	16.7±0.5	0.33±0.12	8	0.69	50

良維薄管

No.	料號	收縮前		收縮後		標準長度 M
		內徑	壁厚	內徑	壁厚	
		mm	mm	mm	mm	
1	LHS-125FR-4- 0.8	1.25±0.15	0.1±0.08	0.4	0.22	200
2	LHS-125FR-4- 1.0	1.4±0.2	0.1±0.06	0.5	0.22	200
3	LHS-125FR-4- 1.5	1.9±0.2	0.1±0.06	0.75	0.22	200
4	LHS-125FR-4- 2.0	2.4±0.2	0.1±0.06	1	0.22	200
5	LHS-125FR-4- 2.5	2.9±0.2	0.15±0.08	1.25	0.25	200
6	LHS-125FR-4- 3.0	3.4±0.2	0.15±0.08	1.5	0.25	200
7	LHS-125FR-4- 3.5	3.9±0.3	0.15±0.08	1.75	0.25	200
8	LHS-125FR-4- 4.0	4.4±0.3	0.15±0.08	2	0.25	200
9	LHS-125FR-4- 5.0	5.4±0.3	0.15±0.08	2.5	0.25	100
10	LHS-125FR-4- 6.0	6.5±0.4	0.15±0.08	3	0.28	100
11	LHS-125FR-4- 7.0	7.5±0.4	0.15±0.08	3.5	0.28	100
12	LHS-125FR-4- 8.0	8.5±0.4	0.15±0.08	4	0.28	100
13	LHS-125FR-4- 9.0	9.5±0.4	0.15±0.08	4.5	0.28	100
14	LHS-125FR-4-10.0	10.5±0.4	0.15±0.08	5	0.28	100



NITOFLOX Pressure-Sensitive Adhesive Tape NO.903UL

1. General

Nothing can stick to the surface of NITOFLOX. When it is used as tape, however, adhesive type is preferable for workability.

No.903 is coated on its one face with a heat-resistant silicone adhesive.

Like other pressure-sensitive adhesive tapes, it can be used for laminating, winding, bundling, and sealing purposes as well as electric insulation purpose. Actually, it is widely used such as for bundling in the atmosphere where resistance to heat and corrosion is required, for releasing purpose requiring non-adhesive property, for hopper chutes requiring low coefficient of friction, and other various fields making use of NITOFLOX's excellent properties.

2. Properties

NITOFLOX pressure-sensitive adhesive tapes have the characteristics of NITTO

Skived Tape No.900 and (1) bondability, (2) heat resistance, and (3) non-adhesive properties.

3. Uses

- Class H electrical insulation
- Linings for hopper
- Conveyers for bread and confectionery
- Separator for heat-sealing
- Anti-adhesion means against paste and adhesive materials
- Mold releasing purposes

Table1

Properties	Values		Test Method
Thickness (mm)	0.08	0.13	ASTM D 1000
Tensile strength (kg/19mm width)	4.1	7.	
Elongation (%)	287	352	
Breakdown voltage (kv) Ave.	9.8	13.5	
Min.	9.3	12.0	
Peel strength (kg/19mm width)	450	567	
Unwinding force (kg/19mm width)	380	503	
Flame resistance	Below 30 (pass)		UL-510
Heat resistance (°C)	180		Internally

Values listed above are typical and should not be used for any specification purposes.

1. Standard Sizes

Thickness (mm)	Width(mm)	Length(M)
0.08, 0.13, 0.18	Any width MIX540mm	10

For other sizes please contact us



NITOFLON Adhesive Tape

NITTO FLUOROPLASTIC PRODUCTS

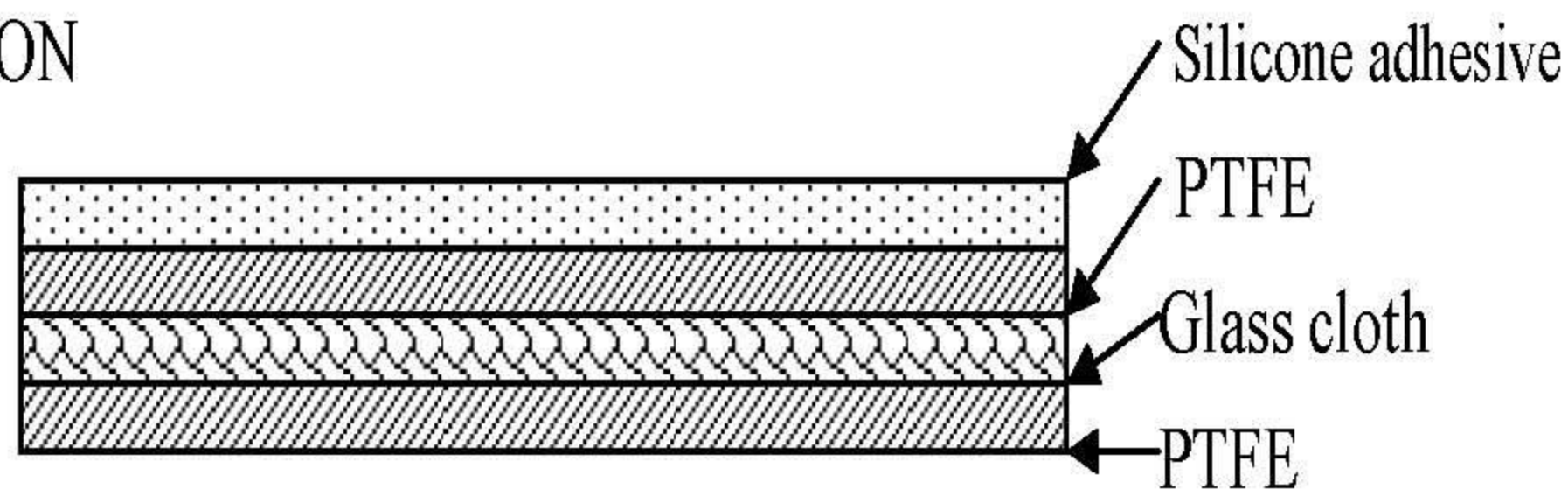
NO.973UL

1. OUTLINE

NITOFLON NO.973UL is one face adhesive tape produced by coating silicone Adhesive on one face of NITOFLON Glass Cloth (No.970) made of high quality Glass cloth impregnated with polytetrafluoroethylene (PTFE) dispersion and sintered. It has excellent heat resistance and high mechanical strength. It is UL-listed flame retardant tape. (File No.E 34833)

2. CONSTRUCTION

No.973UL



3. FEATURES

- 1) The non-adhesive face has excellent characteristics of polytetra-Fluoroethylene e.g. excellent electrical properties, high resistance to heat, weathering, chemicals and water (water repellency), nontackiness,
- 2) High mechanical strength.

NITOFLON is the NITTO's tradename for fluorocarbon plastic products

4. USES

- 3) Covering of pressure rollers of hat sealer for packaging foodstuff, rice bags, chemicals, etc.
- 4) For heat sealing of plastic films.
- 5) Surface covering of sizing rolls for dyeing and plastic processing.
- 6) Covering of the roll of coater for tacky or adhesive materials
- 7) Covering of friction areas of chutes, hoppers, guide rails.
- 8) Covering requiring non-tackiness and plain and smooth surfaces.
- 9) Lining of the tank of applicator.
- 10) Insulating spacer, covering for insulation of wire connections, other insulation coverings.

5. STANDARD SIZES

Product	Thickness (mm)	Width (mm)	Length (M)
No.973UL	0.13	13, 19, 25, 38, 50, 100, 250	
	0.18	13, 19, 25, 250	

*For other sizes, please contact us



COSMOS Pressure-Sensitive Adhesive Tape

NO.932F

DESCRIPTION:

932F Tape, construction is a PTFE film tapes which is one face with a heat-resistant silicon adhesive. 200°C temperature rating, anchoring bonding motor & transformers. The idea insulation tape for dielectric sealing and embossing engineered for use as high temperature. Ground insulation also offer a wear resistant anti-stick release surface in heat-sealing equipment, The product made in England.

USE:

- UL Recognized flame retardant.
- UL Recognized class 200°C.
- Separator for heat-sealing.
- Anti-adhesion means against paste and adhesive materials.
- Solvent resistant with thermosetting.
- Conveyers for bread and confectionery.

TECHNICAL CHARACTERISTICS:

Construction	PTFE film
Backing thickness (mm)	0.05
Overall thickness (mm)	0.08 ± 0.01
Standard color	Dark brown
Standard length (M)	10
Peel adhesion (gf / 25mm)	1000↑
Peel adhesion to own back (gf / 25mm)	600↑
Tensile strength (kgf / 10mm)	8
Elongation (%)	140
Breakdown voltage (KV)	9.5
Electrolytic corrosion coefficient	1.0
Class of insulation (°C)	Class H 180°C
Type of adhesive	Silicon
Flammability	UL 510 FR

SIZE

Type width (mm)	Any width
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The abovementioned data represent the average obtained in our laboratory. Suggestion for use and final results on our best technical experiences but cannot be intended as our commitment or liability. The user will determine the suitability of the product and the method of application for each specific use.



COSMOS
TEFLON COATED GLASS CLOTH ADHESIVE TAPE

NO.945FX

DESCRIPTION

#945F Tape, construction is a glass cloth TFE-coated tapes. 200°C temperature rating, anchoring bonding motor & transformers. The idea insulation tape for dielectric sealing and embossing engineered for use as high temperature. Ground insulation also offer a wear resistant anti-stick release surface in heat sealing equipment, The product made in England.

- .UL Recognized flame retardant.
- .UL Recognized Class 200°C.
- .Puncture resistant.
- .Low friction property.
- .Solvent resistant with thermosetting.

TECHNICAL CHARACTERISTICS

Construction	TFE Impregnated Glass Cloth
Backing Thickness(mm)	0.08
Overall thickness(mm)	0.130~0.18±0.01
Standard colour	Brown
Standard Length(m)	10
Peel adhesion(gf/25mm)	1000↑
Peel adhesion to own back(gf/25mm)	600↑
Tensile strength(kgf/10mm)	8
Elongation(%)	4
Breakdown voltage(kv)	6.0
Electrolytic corrosion coefficient	1.0
Class of insulation(°C)	Class H 200°C
Type of adhesive	Silicon
Flammability	UL510 FR

SIZE

Tape width (mm)	Any width
-----------------	-----------

The abovementioned data represent the average obtained in our laboratory. Suggestion for use and final results on our best technical experiences but cannot be intended as our commitment or liability. The user will determine the suitability of the product and the method of application for each specific use.



CHUKOH FLO Pressure-Sensitive Adhesive Tape

ASF-110
AGF-100

DESCRIPTION:

CHUKOH FLO ASF-110 Tape, construction is a PTFE film tapes which is one face with a heat-resistant silicon adhesive.

CHUKOH FLO AGF-100 Tape, construction is a glass cloth TFE-coated tapes 200°C temperature rating, anchoring bonding motor & transformers. The idea insulation tape for dielectric sealing and embossing engineered for use as high temperature. Ground insulation also offer a wear resistant anti-stick release surface in heat-sealing equipment.

USE:

- UL Recognized flame retardant.
- UL Recognized class 200°C.
- Separator for heat-sealing.
- Anti-adhesion means against paste and adhesive materials.
- Solvent resistant with thermosetting.
- Conveyers for bread and confectionery.

TECHNICAL CHARACTERISTICS:

Construction	ASF-110				AGF-100	
	Overall thickness (mm)	0.08	0.13	0.18	0.23	0.13
Peel off adhesion 180°C (N / 25mm)	8	10	12	12.5	10	12.5
Tensile strength (N / 25mm)	70	160	250	340	360	540
Breakdown voltage (KV)	10	15	18	21	6	6
Elongation (%)	180				N/A	
Standard length (M)	10				10	
Class of insulation (°C)	200°C				200°C	
Standard color	White				Gray	
Type of adhesive	Silicon				Silicon	

Product No	Thickness(mm)	Width(mm)	Length(mm)
AGF-100	0.13	13,19,25,30,38,50,100,	10
	0.18	150,200,250,300,450	
ASF-110	0.08	13,19,25,30,38,50,100, 200,250,300	10
	0.13		
	0.18		
	0.23		



**The America DeWAL
D/W 2000
PTFE FILM**

描述:

聚四氟乙烯薄膜為目前全世界最穩定之離型保護膜,本產品特色為不沾黏,超低的摩擦係數,連續使用的溫度範圍大及優良的電氣特性。本產品適用於平面顯示器面板製造(FPD),異方性導電膜(ACF)貼付(預壓工程段Pre-Bonding)及COF/LCD連接,TCP/LCD連接等製程(本壓著)。使用此產品可有效防止導電膠溢出污染基板及周圍環境,可有效保護玻璃基板純淨度。

特性:

專為STN-LCD和TFT-LCD所設計的專用材料,為友達和群創所認證通過使用。

規格:

STN-LCD	D/W 2000 0.05mm * 12mm * 50M	
TFT-LCD	D/W 2000 0.08mm * 40mm * 20M	D/W 2000 0.08mm * 300mm * 20M
	D/W 2000 0.08mm * 350mm * 20M	D/W 2000 0.08mm * 400mm * 20M
	D/W 2000 0.08mm * 450mm * 20M	D/W 2000 0.08mm * 550mm * 20M
	D/W 2000 0.08mm * 650mm * 20M	
	D/W 2000 0.1mm * 4mm * 120M	

物理特性(PHYSICAL DATA)

Melting point:	260±10°C
Boiling point.:	Not applicable
Vapour pressure (mm Hg at 20°C):	Negligible
Vapour density (air=1):	Not applicable
Solubility in water:	Insoluble
PH-value:	Not applicable
Specific gravity (H ₂ O=0)(typical):	No data
% Volatile by weight:	Negligible
Appearance and odour:	Odourless film



產品資訊(INFORMATION)

The material should be stored, handled and used in accordance with good industrial practice, taking into account all legal regulations.








The above information is offered in good faith and correct at time of printing. However, no guarantee is implied in respect of any particular use of application, and prospective users are solely responsible for any use made of products and / or information

鐵氟龍膠帶布系列 [DeWAL PTFE and UHMW Quality films](#)
描述:

These products are pressure sensitive tapes produced from PTFE impregnated glass fabric that are coated with a "high temperature" silicone adhesive. The PTFE provides a smooth anti-stick surface while the glass fabric provides strength and dimensional stability.

特性:

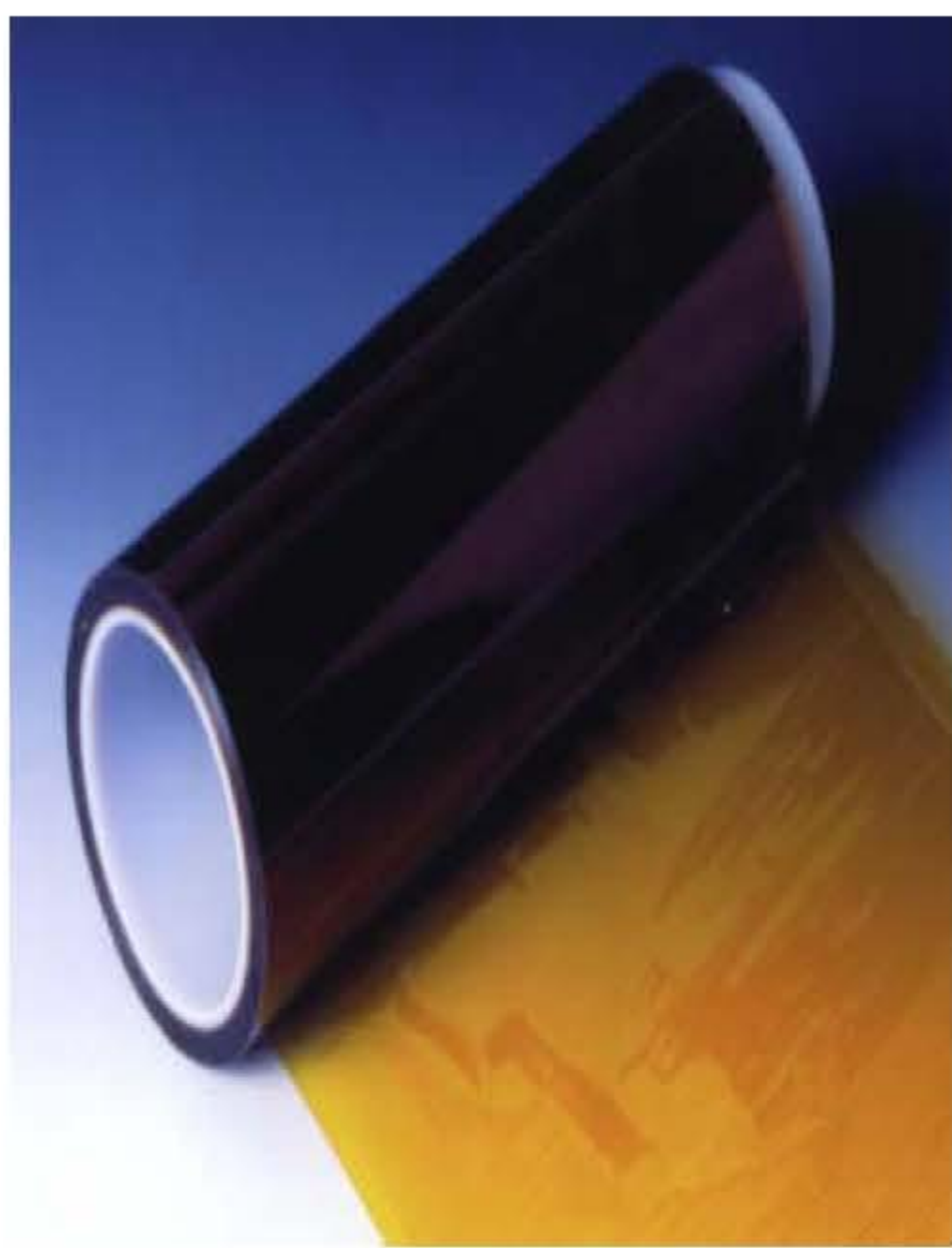
This tape is used primarily in electrical applications including splicing and positioning in coils and support rings, reinforcing slot insulation and armature coil insulation. It is also used in high temperature applications such as LCD, PCB, Semiconductor

1) 鐵氟龍玻璃纖維布 (無膠系列膚色)			
厚度 (mm)	寬度	長度	
0.07	1M	30M	
0.08	1M	30M	
0.11	1M	30M	
0.12	1M	30M	
2) 鐵氟龍玻璃纖維布膠帶 (含膠系列膚色- 無離行紙)			
厚度 (mm)	寬度	長度	
0.13	1M	10M	
0.18	1M	10M	
3) 鐵氟龍玻璃纖維布膠帶 (含膠系列膚色- 有離行紙)			
厚度 (mm)	寬度	長度	
0.12	1M	30M	
0.13	1M	30M	
0.17	1M	30M	
0.18	1M	30M	
0.28	1M	30M	
4) 鐵氟龍玻璃纖維布 (無膠系列黑色、抗靜電材質)			
厚度 (mm)	寬度	長度	
0.08	1M	30M	
0.12	1M	30M	
0.13	1M	30M	
0.24	1M	30M	
5) 鐵氟龍玻璃纖維布膠帶 (含膠系列黑色- 有離行紙、抗靜電材質)			
厚度 (mm)	寬度	長度	
0.08	1M	30M	
0.13	1M	30M	
0.17	1M	30M	
0.18	1M	30M	
0.29	1M	30M	
6) 純鐵氟龍膠帶 (含膠系列- 氟素離行紙)			
厚度 (mm)	寬度	長度	
0.165	914	10M	
7) TEFLON 單面處理			
厚度 (mm)	寬度	長度	
0.05	1016	290M	
0.075	1016	260M	

以上均為固定規格且可提供裁切服務，歡迎來電諮詢。

Kapton Series Motor/Transformer Manufacturing Industry

Kapton® is used in applications such as the solar array and for thermal management in the United States space program.



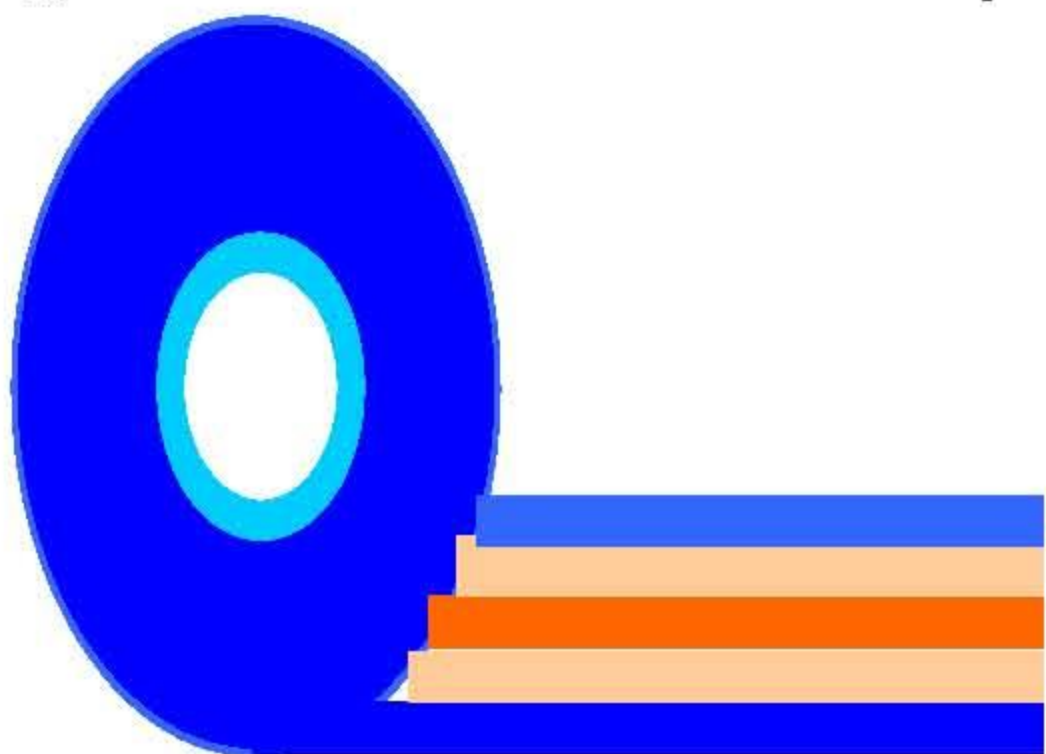
Features:

Polyimide film tape coated with Silicone Adhesive. It can protect gold contacts of PCB during wave soldering process and hot air leveling. Also designed for the high-temperature coils insulation and for The generator, capacitor & transformer Production.

Technical Data (Single sided adhesive Kapton tape) 單面含膠

Total Thickness (mil / mm)	2.2 / 0.055
Adhesion to Steel (gm/25mm)	570
Dielectric Strength (Kv)	6.5
Temperature Range °C	-73 ~ 260

● Double sided adhesive Kapton tape(雙面含膠)



	氟素離型膜
	Silicone adhesive
	Polyimide (50um)
	Silicone adhesive
	氟素離型膜

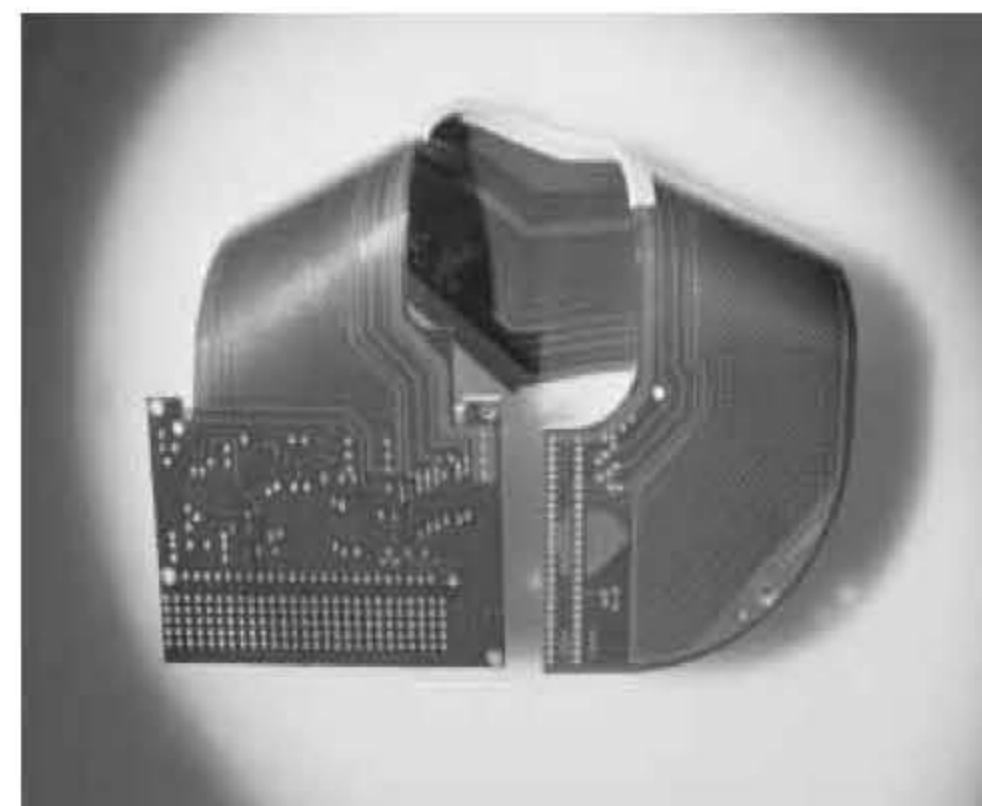
Technical Data :

Total Thickness (mil / mm)	0.12mm
Adhesion to Steel (gm/25mm)	0.7kg & 1kg /25mm
Dielectric Strength (Kv)	5.0 +/-0.5 MV/m
Temperature Range °C	230°C~300°C

● Non-adhesive Kapton(無膠系列)

Physical and Thermal Properties of Kapton® Film

Property	Typical Value for Film Thickness				Test Method
	25 µm (1 mil)	50 µm (2 mil)	75 µm (3 mil)	125 µm (5 mil)	
Ultimate Tensile Strength, MPa (psi)	231 (33,500)	234 (34,000)	231 (33,500)	231 (33,500)	ASTM D-882-91
Ultimate Elongation, %	72	82	82	82	ASTM D-882-91
Tear Strength—Propagating (Elmendorf), N	0.07	0.21	0.38	0.58	ASTM D-1922-89
Tear Strength—Initial (Graves), N	7.2	16.3	26.3	46.9	ASTM D-1004-90
Folding Endurance (MIT), × 10 ³ cycles	285	55	6	5	ASTM D-2176-89
Density, g/cc or g/mL	1.42	1.42	1.42	1.42	ASTM D-1505-90
Flammability	94V-0	94V-0	94V-0	94V-0	UL-94 (2-8-85)
Shrinkage, %, 30 min at 150°C (302°F)	0.03	0.03	0.03	0.03	IPC TM 650 Method 2.2.4A
Limiting Oxygen Index, %	37	43	46	45	ASTM D-2863-87]



Kapton® is an excellent dielectric substrate that meets the stringent requirements of flexible circuitry.



Kapton® withstands the harsh chemical and physical demands on diaphragms used in automotive switches.

住友熱收縮套管系列

F32系列熱縮套管 Heat-Shrinkable Tubing, SUMITUBE F32



係軟質、耐燃照射交連PE複合物製成之熱收縮套管，獲得美國UL實驗室和加拿大CSA認可，符合UL224額定使用溫度125°C、額定使用電壓600V和VW-1耐燃標準。符合CSA額定使用溫度125°C

額定使用電壓150V、OFT耐燃標準。收縮溫度80°C

Basic Properties

- 1) Materials : Cross-linked, flexible, flameretardant polyolefin resin
- 2) Shrink temperature : 90 min.
- 3) Shrink ratio(Radial change): 50% min.
- 4) Longitudinal change : -(5.5)%
- 5) Continuous operating temperature: -55 to 125

Features & Benefits

- 1) UL224 and CSA recognition
- 2) Flame-retardant
- 3) Flexible
- 4) Free of polybrominated biphenyl ethers(PBBEs), polybrominated biphenyl oxides(PBBOs), polybrominated biphenyls(PBBs).
- 5) Made in Sumi-Pac, Taiwan, only.

Applications

- 1) Insulation, protection and reinforcement of terminations and joints of electric wires
- 2) Color identification and bundling of electric wires
- 3) Insulation and protection of resistances and capacitors



UL 224 125°C 600V

項目	連續使用溫度	-45°C~+125°C	
		測試條件	典型值
物理的特性			
抗張強度(老化前)(kg/mm ²)	158°C · 168hrs.		最小1.05
抗張強度(老化後)(%)			最少原始值70
伸長率(老化前)(%)			最小200
伸長率(老化後)(%)	134°C · 60days.		最小100
加熱變形率(%)	125°C · 1hr.		最大50
熱衝擊	136°C · 1hr.		不龜裂
低溫柔軟性	-10°C · 1hr.		不龜裂
縱向收縮率(%)	150°C · 5hrs.		最大15%以下
電氣的特性			
介電強度(KV)			最小AC2.5
體積固有電阻(Ω·cm)			最小10 ¹⁴
化學的特性			
銹蝕性	158°C · 168hrs.		合格
銅安定性(%)			最小伸長率100
耐燃性	VW-1		合格

Nominal size	As supplied (mm)		After shrinkage (mm)		Standard length (m)	
	Inside diameter	Wall thickness (nominal)	Inside diameter (max.)	Wall thickness (min.)	Cut	Spool
1 x 0.2	1.4±0.2	0.2	0.5	0.33	1	200
1.5 x 0.2	2.0±0.2	0.2	0.75	0.36	1	200
2 x 0.2	2.5±0.2	0.2	1	0.44	1	200
2.5 x 0.25	3.0±0.2	0.25	1.25	0.44	1	200
3 x 0.25	3.5±0.3	0.25	1.5	0.44	1	200
3.5 x 0.25	4.0±0.3	0.25	1.75	0.44	1	200
4 x 0.25	4.5±0.3	0.25	2	0.44	1	200
5 x 0.25	5.4±0.3	0.25	2.5	0.56	1	100
6 x 0.25	6.4±0.4	0.25	3	0.56	1	100
7 x 0.25	7.4±0.4	0.25	3.5	0.56	1	50
8 x 0.25	8.4±0.4	0.25	4	0.56	1	50
9 x 0.25	9.4±0.4	0.25	4.5	0.56	1	50
10 x 0.25	10.4±0.4	0.25	5	0.56	1	50
11 x 0.25	11.4±0.4	0.25	5.5	0.56	1	50
12 x 0.25	12.4±0.4	0.25	6	0.56	1	50
13 x 0.3	13.5±0.4	0.3	6.5	0.69	1	50
14 x 0.3	14.5±0.4	0.3	7	0.69	1	50
15 x 0.3	15.5±0.5	0.3	7.5	0.69	1	50
16 x 0.3	16.8±0.5	0.3	8	0.69	1	50
18 x 0.35	18.7±0.5	0.35	9	0.77	1	50
20 x 0.35	21.2±0.6	0.35	10	0.77	1	50
22 x 0.4	23.2±0.6	0.4	11	0.77	1	50
25 x 0.4	26.1±0.8	0.4	12.5	0.87	1	50
28 x 0.4	29.0±1.0	0.4	14	0.87	1	50
30 x 0.4	31.0±1.0	0.4	15	0.87	1	50

F34 系列熱縮套管
 Heat-Shrinkable Tubing, SUMITUBE F34


係軟質、耐燃照射交連PE複合物製成之熱縮套管，獲得美國UL實驗室和加拿大CSA認可，符合UL224額定使用溫度125°C、額定使用電壓300V和VW-1耐燃標準。符合CSA額定使用溫度125°C額定使用電壓150V、OFT耐燃標準。收縮溫度80°C

Basic Properties

- 1) Materials : Cross-linked, flexible, flameretardant polyolefin resin
- 2) Shrink temperature : 90 min.
- 3) Shrink ratio(Radial change): 50% min.
- 4) Longitudinal change : -(5.5)%
- 5) Continuous operating temperature: -55 to 125

Features & Benefits

- 1) UL224 and CSA recognition
- 2) Flame-retardant
- 3) Flexible
- 4) Free of polybrominated biphenyl ethers(PBBEs), polybrominated biphenyl oxides(PBBOs), polybrominated biphenyls(PBBs).
- 5) Made in Sumi-Pac, Taiwan, only.

Applications

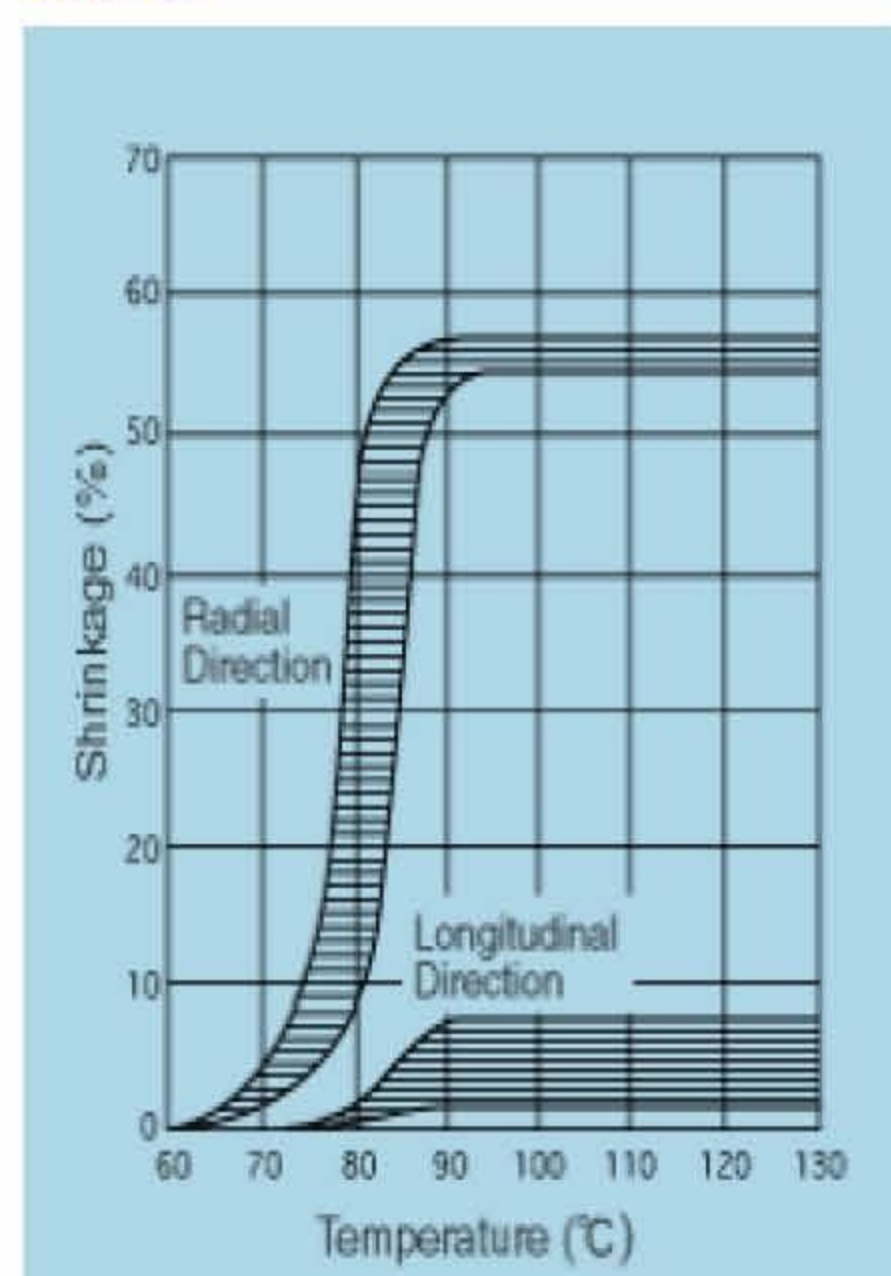
- 1) Insulation, protection and reinforcement of terminations and joints of electric wires
- 2) Color identification and bundling of electric wires
- 3) Insulation and protection of resistances and capacitors



標準額定UL 224(125°C 300V)

項目	連續使用溫度	
	-45°C~+125°C	
物理的特性	測試條件	典型值
抗張強度(老化前)(kg/mm)	158°C · 168hrs.	最小1.05
抗張強度(老化後)(%)		最少原始值70
伸長率(老化前)(%)	134°C · 60days.	最小200
伸長率(老化後)(%)		最小100
加熱變形率(%)	125°C · 1hr.	最大50
熱衝擊	136°C · 1hr.	不龜裂
低溫柔軟性	-10°C · 1hr.	不龜裂
縱向收縮率(%)	150°C · 5hrs.	最大15%以下
電氣的特性		
介電強度(KV)		最小AC2.5
體積固有電阻(Ω-cm)		最小10 ¹⁴
化學的特性		
蝕蝕性	158°C · 168hrs.	合格
銅安定性(%)		最小伸長率100
耐燃性	VW-1	合格

公稱尺寸 Nominal size	收縮前 As supplied (mm.)		收縮後 After shrinkage (mm)		標準長度 Stand length
	內徑 (D) Inside diameter	厚度 (W) Wall thickness	內徑 (d) Inside	厚度(W)min Wall	
1×0.1	1.3±0.3	0.1	0.5	0.2	200
1.5×0.1	1.9±0.3	0.1	0.75	0.2	200
2×0.1	2.3±0.3	0.15	1	0.2	200
2.5×0.15	2.8±0.3	0.15	1.25	0.25	200
3×0.15	3.3±0.3	0.15	1.5	0.25	200
3.5×0.15	3.8±0.3	0.15	1.75	0.25	200
4×0.15	4.4±0.3	0.15	2	0.25	200
5×0.15	5.5±0.3	0.15	2.5	0.25	100
6×0.15	6.5±0.4	0.15	3	0.28	100
7×0.15	7.5±0.4	0.15	3.5	0.28	50
8×0.15	8.5±0.4	0.15	4	0.28	50
9×0.15	9.5±0.4	0.15	4.5	0.28	50
10×0.15	10.5±0.5	0.15	5	0.28	50

Shrinkage-Temperature Curve


The above curve chart shows the shrink ratio in each direction. The shrink ratio in longitudinal direction should be indicated with negative sign. (ex. 15% → -15%)

性能Property	測試條件	典型值Typical value
物理特性: physical		
老化後抗張強度(%)	136°C 168hrs	70 of original min
Tensile Strength after aging		
老化後伸長率(%)	113°C 60days	100min
Elongation after aging		
熱衝擊性	136°C 1hr	不龜裂
Heat shock		No crack
低溫柔軟性	-10°C 1hr	不龜裂
Cold bend		No crack
電氣特性:Electrical		
耐電壓(KV)		2.5min
Dielectric strength		
體積固有電阻(Ω-cm)		10 ¹⁴ 以上
Volume resistivity		
化學特性:Chemical		
抗腐蝕性Corrosion	158°C 168hrs	合格Pass
銅安定性(%)		100%伸長率min
Copper stability		100% elongation min
耐燃性Flammability	VW-1	合格Pass

SUMITUBE W3F2 (含膠熱縮套管)

■ 標準尺寸 Standard size

公稱尺寸 Nominal size (inch)	收縮尺寸 (mm) diameter as supplied (min)		收縮後尺寸 (mm.) Inside diameter after recovery(max)			單長 Length (M)
	內徑 Inside diameter	壁厚 thickness	內徑 Inside diameter	壁厚Wall thickness	內層壁厚 Inside wall thickness	
1/8	3.2	0.35	0.6	0.95	0.35	1
1/5	4.8	0.45	1.5	1.1	0.6	1
1/4	6.4	0.45	2	1.2	0.65	1
3/8	9.5	0.5	3	1.3	0.65	1
1/2	12.7	0.55	4	1.4	0.75	1
3/4	19	0.65	8	1.6	0.8	1
1	25.4	0.75	10.2	1.9	0.8	1



為柔軟、具耐燃性雙層式照射熱收縮套管，內層係粘著性良好之熱融膠，外層則為軟性照射交連耐燃 PE 構成，其收縮倍率達 3 倍以上，收縮後黏性良好之熱融膠能完全包住接續兩端隻材料並將接點封住，容易施工、不須保養，能耐惡劣環境、濕氣等衝擊，達到保護零組件需求。SUMITUBE W3F2 同時獲得美國 UL244 FILE NO. E75077 和加拿大 CSA C22.2 NO. 198.1 認可、額定連續使用溫度 125°C、額定連續使用電壓 600V 之標準，及美國軍方 MIL-1-23053/4 Class3 之標準

SUMITUBE SCM

為高耐熱性照射交連 PE、內含高性能熱融膠為含膠密封及抗腐蝕用中厚度套管。其柔軟性佳、具 3 倍高收縮比，對金屬、PE、PVC 有良好之粘著性。

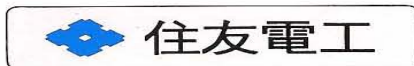
SCM 適用於管路及線材接點保護、低壓電纜終端保護、有線電視纜線接頭保護及取代膠帶之應用。



■ 標準尺寸 Standard Size

item No	D(mm) Inner Dia		W(mm) Thickness nom
	a.min	b.max	
SCM-04	10.2	3.8	1.5
SCM-07	19	5.6	2
SCM-11	28	9.5	2
SCM-13	33	10.2	2
SCM-15	38.1	12.7	2.3
SCM-17	44	14	2.3
SCM-20	52.1	18.2	2.3
SCM-27	70	25.5	2.3
SCM-35	90	30	2.5
SCM-50	125	40	2.5

	TEST METHOD	Typical Data
TENSILE STRENGTH	ISO 37	21 N/mm ²
ELONGATION	ISO 37	550%
COLD BEND	ASTM D2671(-40°C)	NO CRACK
DIELECTRIC STRENGTH	IEC 243	21 kv/mm
VOLUME RESISTIVITY	IEC 93	2 x 10 ¹⁴ Ohm cm
DIELECTRIC GRAVITY	IEC 250	4.1
WATER ABSORPTION	ASTM D570	0.06%
FLAMMABILITY	BS 4066	PASS
CORROSION	ASTM D2671(16HR AT 150°C)	PASS
WEATHERING	SCM	The material from which SCM is manufactured carbon black to protect it from ultra-violet light.



AMP
tyco

Electronics

Raychem

專業代理

美國泰科 (Raychem)

美國泰科 A.M.P

住友株式會社 (Sumitube)

台灣良維科技 (LongWell)

中國沃爾熱縮 (Woer)

日東電工 (Nitto Denko)

大信 PVC 套管(DEV-300)

中興化成株式會社 (CHUKOH FLO)

大日本油墨株式會社 (DIC)

美國 DEWAL (鐵氟龍產品)

營業項目

軟式排線

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自融膠帶

絕緣膠帶

雙面膠帶

導熱凝膠

其他電子工業用材料及加工成品

導電泡棉

E.M.I.材料

熱收縮套管

鐵氟龍膠帶

玻纖砂套管

拉拔帶

含膠套管

FPC 材料

耐熱材料

PVC 套管

綠色材料

連接器

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