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啓盟工業股份有限公司  
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18-06-01

Professionalism

Product Excellence

Trustworthy

Innovation



# ChiMENG

創立於1973年，專業發泡生產加工。

Professional Plastic / Rubber Foam Manufacturer. **Since 1973.**

BEST CHOICE

啓盟工業股份有限公司  
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MADE IN TAIWAN



# Visions 願景



Professionalism 專業  
Product Excellence 卓越  
Innovation 創新  
Trustworthy 信賴

# Chi MENG

## About Us 公司簡介

啓盟工業股份有限公司成立於1973年，為台灣第一家專業製造橡、塑膠發泡板材，並具備後端專業加工能力的企業。創辦以來，我們以領先的技術實力協助客戶創造產品價值，並以不斷創新及追求卓越為目標。

Founded in 1973, Chi Meng Industry Co., Ltd. is Taiwan's first professional manufacturer of rubber & plastic bun foams, as well as an enterprise that have professional back-end processing capabilities. Since our establishment, apart from utilizing leading technology to help customers create high value products, we also constantly introduce innovated products to pursue excellent achievements.

在精良的研發團隊帶領之下，啓盟工業由創辦之初所投入的製鞋業，擴展到運動健身產品的開發與生產。並憑藉著多樣化與高穩定度的量產技術，全力投入汽車業、建築業、空調保溫、吸音減噪、土木水利、海洋漁業、醫療保健、吸震緩衝等領域。隨著科技產業興起，本公司的產品亦被廣泛應用於電子業、光電業、半導體與3C產業。

Led by an excellent R&D team, Chi Meng has expanded its initial investment on footwear domain to the development and production of sports and fitness products. Based on its diversification and highly stabilized mass production technology, we have stretched our business further into automobile, construction, air conditioning and insulation, noise absorbing, civil engineering, marine fishery, health care, anti-vibration and cushioning and other fields. Our products have thus been widely used in electronics, electro-optics, semiconductor, and 3C industries following the rise of technological industry.



在品質、環保、產品安全的堅持下，啓盟工業以領先的腳步陸續取得CNS正字標記、MIT微笑標章、ISO 9001: 2015等專業認證。全系列產品亦通過歐盟RoHS、REACH、PAHs Free、Phthalates Free、美國FMVSS302 之檢測；指定產品更通過美國UL94-HF1防火耐燃、非鹵素等檢測及認證。

Placing consistent emphasis on quality, environmental protection and product safety, Chi Meng has led the industry to obtain CNS Mark, MIT Smile Label, ISO 9001: 2015 and other professional certifications. Full range of products has also been accredited with EU RoHS, REACH, PAHs Free, Phthalates Free, and US FMVSS302 test approvals; specific products have passed the US UL94-HF1 fire retardant, halogen-free and other test approvals.

展望未來，啓盟工業感謝全球客戶的信賴與肯定，這股動力將持續推動我們向前邁進、持續創新求變，為全球橡膠發泡產業開創出一條無限寬廣的新格局。

Looking into to the future, Chi Meng would like to thank worldwide customers for their trust and recognition, which has in turn driven us forward and innovate consistently to create new opportunities for the rubber and plastic foam industry.

# History and Milestones 歷史沿革



**1973**  
3月7日創立。  
Established on 7<sup>th</sup>, March.

## ● 1974

設立EVA發泡鞋材生產線。  
Set up EVA foam production line for footwear.

## ● 1977

開啟塑膠鞋生產線，開始量產拖鞋、海灘鞋。  
Launched production lines for foam shoes, slippers, and flip-flops.  
取得經濟部核發品管甲等等級。  
Acquired "A Grade Quality Control Award" by Ministry of Economic Affairs.

## ● 1980

由日本三和化工株式會社引進先進發泡技術，並開始量產世界獨一無二之PE化學架橋高發泡體。  
Introduced the world's most advanced foaming technology from Sanwa Kako Co., Ltd., Japan, and mass-produced the unique High Expanded Chemical Cross-Linking PE Foam.

## ● 1982

由美國 Tom Morey Co. 引進衝浪板生產技術。  
Introduced the new surfboard production techniques from Tom Morey Co., USA.  
同年開設橡膠發泡生產線。  
Set up rubber foam production line.

## ● 1985

PE聚乙烯泡沫塑膠隔熱材料取得CNS正字標記。  
Accredited with CNS Mark of "Polyethylene (PE) Foam for Heat Insulating" by Bureau of Standards, Ministry of Economic Affairs.

## ● 1987

本公司隔熱PE發泡板材取得塑膠發展協會隔熱驗證。  
Obtained Quality Certification of "Thermal Insulation PE Foam" from Plastic Development Association.

## ● 1990

經濟部工業局核准本公司產品PE高倍率止燃性發泡體及導電性高倍率發泡體為科技事業。  
Chi Meng's High Expanded Non-Inflammable PE Foam, and High Expanded Conductive PE Foam were honorably approved as the "Scientific & Technologic Enterprise's Products" by Bureau of Industry, Ministry of Economic Affairs.

## ● 1995

引進日本生物力學技術，並與成功大學醫工所合作開發之健康床墊，取得成功大學醫工所基建字第0304號認證。  
Introduced biomechanical technology from Japan and cooperated with BioMedical Engineering Institute of National Cheng Kung University to produce functional mattress for preservation of sleeper's health. Gained certification, NCKU R&D Foundation No. 0304, from above institute.

投資中國石家莊啟宏橡膠製品有限公司，事業版圖跨足中國大陸。  
Invested in Shijiazhuang Qihong Rubber & Plastic Products Co., Ltd. in Shijiazhuang City, China. The business branched out into China.

## ● 1996

通過ISO-9002認證。  
Acquired ISO-9002 Certification.

## ● 1998

與日本三和化工株式會社結為國際策略聯盟，並引進高技術導電、抗靜電、Open Cell發泡體生產技術，並開始量產。  
Leagued together with Sanwa Kako Co., Ltd., Japan as an international strategic alliance, and imported further advanced mass production technology of Conductive Foam, Anti-Static Foam, and Open Cell Foam.

## ● 2001

通過ISO-9001認證。  
Acquired ISO-9001 Certification.

## ● 2003

取得美國UL94-HF1防火難燃等級認證。  
Acquired UL94-HF1 Fire Retardant Classification Certification.

## ● 2006

推動綠色環保，本公司全系列產品通過歐盟RoHS檢測，以符合歐盟RoHS之執行指令。  
Passed RoHS to comply with EU's RoHS directive requirement as well as promote environmental sustainability.

## ● 2007

本公司全系列產品通過歐盟REACH檢測。  
Passed REACH Standard to comply with EU's directive requirement.

## ● 2008

通過Phthalates Free檢測，防護人體不受鄰苯二甲酸酯類危害。  
通過PAHs Free檢測，產品不含高致癌之多環芳烴碳氫化合物。  
Passed Phthalates Free and PAHs Free Standards.

## ● 2012

橡膠發泡產線設備升級、製程再造，提升生產效率。  
Re-engineered and upgraded rubber foam production line to have more production capacity.

## ● 2013

加工設備升級，設立離門吸盤式自動劈片設備與客製化加工設備。  
Deployed Vacuum Conveyor Type Bandknife Splitting Machine and other back-end processing equipment.

## ● 2015

吸震材料(SA系列) 與橡膠抗靜電發泡 (EPDM-AS系列) 量產。  
Mass production of Shock Absorption (SA Series) and Rubber Anti-Static Foam (EPDM-AS Series).

# List of Products 產品總覽

## PE/EVA 發泡 PE/EVA Foam

- L Series.
- C Series.
- H Series.
- XM Series.
- PE Series.



## 橡膠發泡 Rubber Foam

- EPDM Series.
- CR Series.
- SBR Series.



## 高彈性發泡 High Elastic Foam

- RE Series.
- EL Series.
- S Series.



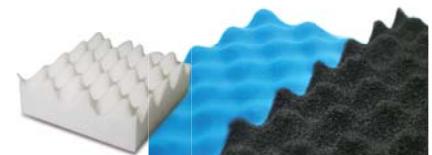
## 吸震材 Shock Absorption Foam

- SA Series.



## Open Cell 發泡 Open Cell Foam

- LC Series.
- EPDM-OP Series.



## 導電/抗靜電發泡 Conductive / Anti-Static Foam

- LCX Series.
- SX Series.
- SXP Series.
- EPDM-AS Series.



## 特殊發泡 Specialty Foam

- BASF, Melamine Foam
- Zotefoams Foam Products
- Armacell Foam Products



ZOTEFOAMS



THE MAKERS OF  
Armacell  
Tensile  
Gels • Products



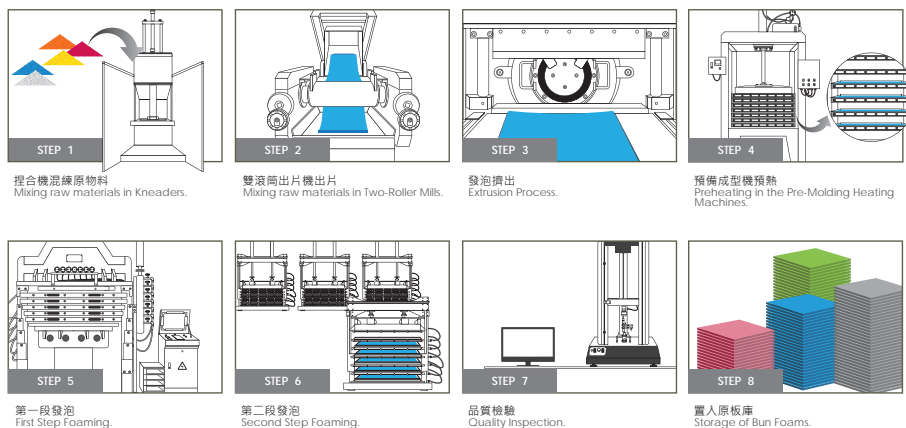
## Factory & Lab

生產流程、實驗室

### 原板生產流程 / Bun Foam Production Procedures. :

憑藉高穩定度之發泡生產線，啟盟工業可提供多種類、多尺寸、多色系、多功能性之發泡板材：

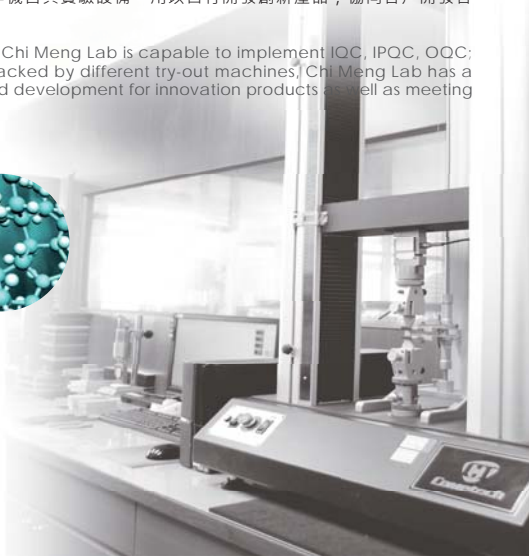
Rely on our diversification and highly stabilized mass production technology, Chi Meng produces various plastic and rubber bun foams in different sizes, colors, and functions:



### 實驗室 / Laboratory

啟盟工業實驗室，具備各式物性檢測儀器，可以有效執行進料檢驗、製程檢驗、出貨檢驗，有效監控產線穩定度並維持出貨品質。本實驗室亦致力於產品，具備各式試作機台與實驗設備，用以自行開發創新產品；協同客戶開發客製化產品。

With various physical properties testing equipment, Chi Meng Lab is capable to implement IQC, IPQC, OQC; ensure the stability and efficiency of production. Backed by different try-out machines, Chi Meng Lab has a "mini production line" for dedicating to research and development for innovation products as well as meeting customer's special requirements.



## Processing Center

加工中心

### 加工能力 / Back-End Processing.

啟盟工業具備專業加工中心，現有以下機種協助客戶進行客製化或OEM需求。

In Chi Meng's Processing Center, we have deployed different kinds of equipment to meet various customization and OEM demands.



- 龍門吸盤式自動劈片機 Vacuum Conveyor Table Bandknife Splitting Machine.
- CNC加工機 CNC Milling Machine.
- 多型體加工機 Multi-Shape Processing Machine.
- 冷/熱壓成型機 Cold/Hot Compression Molding Machine.
- 電熱貼合機 Thermoelectric Laminating Machine.
- 背膠機 Glue Coating Machine.
- 全自動包裝收縮機 Automatic Shrink Packing Machine.
- 全自動研磨機 Automatic Grinding Machine.
- 全自動分條機 Automatic Slitting Machine.
- 全自動裁斷機 Automatic Die Cutting Machine.







# 高彈性發泡

## High Elastic Foam

因應市場需求，啟盟工業成功研發出同時具有塑膠與橡膠發泡特性的高彈性發泡。因材質為熱可塑性材料，十分適合於冷/熱壓成型。本公司目前提供RE, EL, S三系列高彈性發泡。

In response to market demands, Chi Meng has successfully developed high elastic foams that have both plastic and rubber foam properties. These thermoplastic materials are ideal to perform cold/hot molding. Currently available are three series of RE, EL, and S high elastic foams.



- 高彈性 High Elasticity.
- 高延伸 Excellent Ductility.
- 恢復性 Recoverability.
- 冷/熱壓成型 Cold/Hot Molding
- 止滑性 Anti-Slipping.
- 不吸水 Non-Water Absorbing.
- 輕量性 Lightweight.

### RE/EL/S系列 RE/EL/S series

同時具備塑膠、橡膠發泡的特性。主要應用在鞋材、運動護具、緩衝材料、醫療用馬桶坐墊等。

Having both plastic and rubber foam properties, RE series is mainly used in footwear, sports protectors, cushioning materials, medical toilet seats, etc.



# 吸震材

## Shock Absorption

啟盟工業以TPE (Thermoplastic Elastomer, 熱塑性彈性體) 與EVA (Ethylene Vinyl Acetate, 乙烯、醋酸乙烯酯共聚物) 開發出吸震發泡材料系列。此吸震材具極佳的吸震能力，可以瞬間吸收震動，並將震動能量轉換為熱能，讓力量快速逸散與消除。

Chi Meng has developed a series of shock absorption foams out of TPE (Thermoplastic Elastomer), and EVA (Ethylene Vinyl Acetate) with excellent shock absorption capability. These shock absorption materials can instantly absorb shock and convert the vibration energy into heat, and further disperse and eliminate the heat energy rapidly.



- 低反撥 Low Rebound.
- 高吸震 Shock Absorption.
- 恢復性 Recoverability.
- 冷/熱壓成型 Cold/Hot Molding.
- 耐衝擊 Impact Resistance.

### SA系列吸震材 / SA series

除了優秀的吸震、防震、制震、低反撥彈性 (Rebound)能力外，也富有良好的強韌性、耐衝擊性。適合應用運動護具、馬術護具、汽機車人身部品、鞋材等。

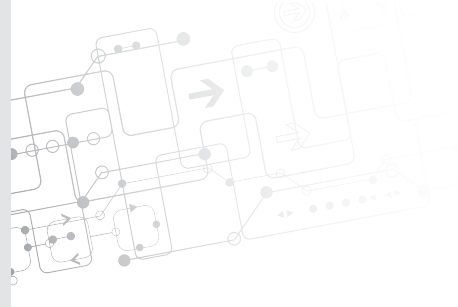
In addition to excellent shock absorption, shock resistance, damping and low rebound properties, the materials also feature high toughness, impact resistance characteristics. They are suitable to use in sports protectors, horse riding body protector, motorcycle and vehicle protective gear and clothing, footwear, etc.





# 導電/抗靜電

## Conductive/ Anti-Static Foam



隨著半導體、電子、光電產業興起，精密電子零件需求快速提升。但這類精密零件常被製程、搬運、摩擦中產生的靜電損害。因應新興產業需求，啟盟工業開發出導電、抗靜電發泡以防止此類靜電式的帶電。

With the growth of the semiconductor, electronics, electro-optics industries, the demand of precision electronic components increases rapidly. However, the occurrence of static electricity from production process, parts transporting as well as friction caused by movements may cause considerable damage and loss. By consistently staying ahead of the curve in the industry, Chi Meng has successively developed Conductive Foam, and Anti-Static Foam as solutions.



### 導電LCX系列 / Conductive LCX Series

- 導電性 Conductive.
- 電波吸收 Electromagnetic Absorption.
- 輕量性 Lightweight.
- 易加工 Ideal for Processing.

LCX系列產品採用PE為基材，表面阻抗在 $10^4 \sim 10^6 \Omega$ ，能夠提供優異的導電性。特別是在製造過程中，碳黑與樹脂混練在一起，因此不會有碳黑類等導電性物質的掉落，更不會污染環境。

The PE based LCX Series has a low surface resistivity between  $10^4$  and  $10^6 \Omega$ , making it a perfectly conductive product. Practically, the carbon black is kneaded into PE fundamental materials during manufacturing process. Thus, there will be no any electric conductive substances, such as carbon black, falling from products. It is also free from environmental pollution.

### 抗靜電SX/ SXP 與EPDM-AS 系列

#### Anti-Static SX/ SXP Series & EPDM-AS Series

- 抗靜電 Anti-Static.
- 輕量性 Lightweight.
- 易加工 Ideal for Processing.

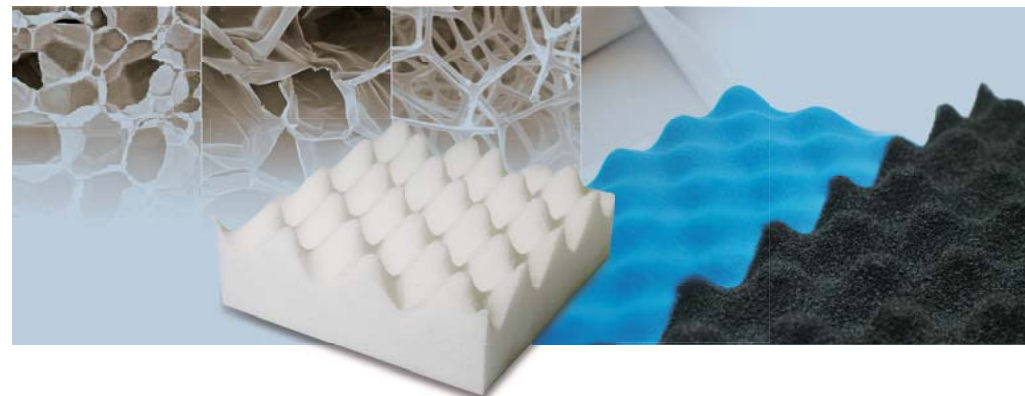
本系列產品具有優越的防止帶電能力，表面阻抗為 $10^9 \sim 10^{11}$ 。目前本公司提供以PE/EVA為基材的SX系列，與使用橡膠發泡EPDM為基材的EPDM-AS系列。

These Anti-Static products have a stable anti-static ability, with surface resistivity  $10^9 \sim 10^{11}$ . Currently Chi Meng provides Anti-Static SX/ SXP Series, using PE/EVA as base materials. Furthermore, to fulfill customer's special demands, Chi Meng adopts EPDM rubber as fundamental materials, provides Anti-Static EPDM-AS series.

# Open Cell Foam

Open Cell發泡是以特殊製造流程生產具獨立氣泡的發泡板材，並經過與脫泡工夫，生產出具有獨特半開孔氣室結構的發泡材料。本公司提供以PE/EVA為基材的LC系列與使用EPDM為基材的EPDM-OP系列：

With our own advanced production know-how and cell disruption techniques, Chi Meng has successfully mass-produced the Open Cell foam which is with unique semi-open and interconnected bubble structure. Currently we are offering PE/EVA based LC Series and EPDM rubber based EPDM-OP Series.



### OPCELL

#### LC系列 / LC Series

- 吸音性 Sound Absorption.
- 氣密性 Airtightness.
- 抗老化 Anti-Aging.
- 隔熱性 Thermal Insulation.
- 輕量性 Lightweight.
- 吸水性 Water Absorption.
- 恢復性 Recoverability.

LC系列為PE/EVA材質，並具獨特的半開孔氣室結構，發泡體內部氣孔相互連通，有良好的過濾、密封功能。可運用於3C產品的密封條、建築用的隔熱材、吸音材等。本公司亦有提供達到UL94-HF1難燃等級與非鹵素的Open Cell產品。

Open Cell LC Series is made by PE / EVA fundamental materials. Backed by its semi-open and interconnected bubble structure, Open Cell LC Series is naturally excellent at sound absorption, water absorption, filtration, heat insulation, and sealing abilities. The product is widely used as heat insulation, and sound absorption materials in buildings, as well as seal strips of 3C products. This series also comes in models compliance with UL94-HF1 fire retardant & non-halogen.

#### EPDM-OP系列 / EPDM-OP Series

- 吸音性 Sound Absorption.
- 吸水性 Water Absorption.
- 氣密性 Airtightness.
- 耐候性 Weathering Resistance.
- 抗老化 Anti-Aging.
- 抗臭氧 Ozone Resistance.
- 隔熱性 Thermal Insulation.
- 止滑性 Anti-Slipping.
- 恢復性 Recoverability.

EPDM-OP能有效隔絕水、空氣、熱，並能貼合凹凸平面。本產品廣泛應用在汽車業、電子業與建築業。本公司亦提供無硫之EPDM-OP產品。

EPDM-OP Series can effectively insulate water, air, heat and fitting on the rough surface. It is widely used in electronics, automotive, and construction industries. Chi Meng also provides sulfur-free EPDM-OP foam.



# 特殊發泡

## Specialty Foam

為服務客戶日趨多樣化的產品應用需求，本公司亦提供各種具特殊特性之發泡產品。

In order to meet diverse demands from different industries, Chi Meng also provide specialty foams which are with unique properties.



### BASF, 美耐皿發泡 / BASF Melamine Foam

- 吸音性 Sound Absorption.
- 吸水性 Water Absorption.
- 防火性 Fire Retardant.
- 易加工 Ideal for Processing.
- 清潔性 Ideal for Cleaning.
- 耐高溫 Heat Resistance.
- 輕量性 Lightweight.

BASF美耐皿發泡含有許多細小的孔隙，具有優異的吸音特性與UL94-V0的防火等級，廣泛運用於吸音室與汽車工業，並可做為清潔用品之用。

BASF Melamine Foam is with lots of mini holes and with excellent sound absorption and pass US UL94-V0 fire retardant standard. It is widely used in automobile, construction industry, and cleaning equipment.



### ZOTEFOAMS Zotefoams 氮氣發泡 / Zotefoams

- 無化學殘留 No Chemical Residues.
- 無毒無味 No Pungent Smell.
- 不吸水 Non-Water Absorbing.
- 輕量性 Lightweight.
- 易加工 Ideal for Processing.

Zotefoams使用純氮在高壓製程設備中產生物理性發泡，適合使用於需與人體直接接觸的醫療產品，如糖尿病患者使用的鞋墊。也適用於古董文物、高單價電子產品儲放等用途。

Zotefoams is using its unique nitrogen expansion technology to foam a variety of advanced polymers. It is ideal to apply to medical suppliers which may directly contact human skin, such as shoe insoles for diabetics. It is also excellent as packing, storage materials for antiques and high-end electronic or optical devices.



- 吸音性 Sound Absorption.
- 隔熱性 Thermal Insulation.
- 保溫性 Heat Retention.
- 防火性 Fire Retardant.
- 耐高低溫 Heat/Cold Resistance.
- 輕量性 Lightweight.
- 易加工 Ideal for Processing.

Armacell公司專門於橡塑保溫材料與絕熱材料。特別在絕熱、吸音降噪、外護層系統和高性能低溫保冷系統方面擁有專門技術。指定Armaflex品牌更採用類奈米孔精細密閉發泡技術，並可達到優秀的UL94-V0防火性。

Armacell specializes in flexible insulation foams for the equipment insulation market and also a leading provider of engineered foams. The featured Armaflex Series is made by the nano-foaming process and pass US UL94-V0 fire retardant standard.

# 產品應用

## Applications

啓盟工業，幫助您在專業應用中，創造無限可能性。

Chi Meng continues to create greater possibilities in various industrial applications.

