

# 医用塑料指南

## MEDICAL PLASTICS GUIDEBOOK

轻松掌握最新医疗器械、耗材和医药包装解决方案

Easy Access to Medical Device, Disposables and Pharmaceutical Packaging New Solutions



抢先体验  
COME & EXPLORE

2024·4·23-26

中国·上海国家会展中心(虹桥)  
National Exhibition and Convention Center (NECC),  
Hongqiao, Shanghai, PR China

# 生物相容材料

## Biocompatible Materials

隨著材料科學的快速發展，醫用高分子材料成為生物相容材料的重要組成部分，其廣泛應用包括一次性耗材、植入或介入性材料、藥物載體和醫藥包裝等。

With the rapid development of material science, medical-grade polymer becomes an important member of the biocompatible materials family. Their wide applications include medical consumables, implantable or interventional materials, drug carriers, and pharmaceutical packaging, etc.



### 隱形牙套及牙科器械用創新醫用級材料

#### Innovative Medical-grade Materials for Dental Aligner and Orthodontics Devices



在牙科器械領域，路博潤醫用級TPU伴隨著隱形牙套的發展已有20多年的應用歷史。路博潤醫用級TPU在力學性能、光學清晰度、生物相容性及加工窗口上的獨特優勢讓其廣泛應用於全球的知名品牌。在專業團隊的加持下，路博潤醫用級TPU已成為隱形牙套和牙科器械的優先高分子材料。

Lubrizol's medical-grade TPUs have enabled the invisible dental aligner industry for more than 20 years. With a unique combination of mechanical properties, optical clarity, biocompatibility and processing versatility, our products are utilized by global leaders throughout the industry. Lubrizol's medical-grade TPUs are ideal for dental aligners and orthodontics devices.

#### 展台號：6.2C11

路博潤特種化工製造(上海)有限公司  
LUBRIZOL SPECIALTY CHEMICALS  
MANUFACTURING (SHANGHAI) CO., LTD.

### 人工關節

#### Artificial Joint



超高分子量聚乙烯粉末製成的人工關節，整體上具有均一性，嵌合其中的聚合物大分子鏈顯著改善了人工關節的生物相容性和摩擦學性能，減輕了組織反應和無菌鬆動，具有持久低摩擦耐磨的特性，可延長其使用壽命。

The artificial joint made of ultra-high molecular weight polyethylene powder has overall uniformity, and the polymer macromolecular chains embedded in it significantly improve the biocompatibility and tribological properties of the artificial joint, reduce tissue reactions and aseptic loosening, and have the characteristics of long-lasting low friction and wear resistance, which can extend its service life.

#### 展台號：7.2B121

國化投資集團有限公司  
NATIONAL CHEMISTRY INVESTMENT HOLDINGS LTD.

### 可降解植入骨釘注射成型技術完整解決方案

#### A Complete Solution for Injection Molding Technology of Biodegradable Implanted Bone Nails

此產品應用醫療級PLGA材料進行一次注射成型製作而成，由於原料屬於生物可降解型材料，可在一段時間內完全被人體吸收，愈合後無需再進行二次手術取出。海天擁有成型醫療級PLGA材料整體解決方案和成型經驗，可提供整套設備以及成型工藝指導。

This product is made by one-time injection molding using medical grade PLGA material. As the raw material is biodegradable, it can be completely absorbed by the human body for a period of time, and there is no need for secondary surgery to remove it after healing. HAITIAN has comprehensive solutions and experience in forming medical grade PLGA materials, and can provide complete equipment and molding process guidance.

#### 展台號：5.1D32

海天國際控股有限公司  
HAITIAN INTERNATIONAL HOLDINGS LTD.



## Topolymer®M系列TPE在医疗市场的创新应用 Topolymer®M series TPE Material's Innovative Applications



顶塑推出医疗应用TPE，透明，高强度，高回弹性，符合USP及FDA要求，可与药液及人体接触，安全可靠。另推出多种硬度医疗器材包胶TPE材料，符合医疗器材生物相容性要求、耐剥离力高，适用多种消毒方式。

Topolymer® M series TPE is widely used for medical applications, with transparent appearance, high strength and high resilience. The M series material complies with USP and FDA standards, it can contact medication and the human body, thereby ensuring product safety and reliability. Top Polymer have also launched TPE solutions of various hardness that can overmold with different rigid plastics and alloys for medical equipment applications, it can meet the biocompatibility requirements of medical devices, have high peel-resistance, and are suitable for various disinfection methods.

**展台号：6.2C89**

江苏顶塑实业有限公司

JIANGSU TOP POLYMER ENTERPRISE LTD.

## ViviOn™环状嵌段共聚物(CBC) ViviOn™ Cyclic Block Copolymers (CBC)

ViviOn™ (CBC) 具有高洁净度、耐化性和可伽马射线灭菌的优势，使 ViviOn™ 成为安全的医疗材料，其高UV穿透率、低自体荧光值，可降低荧光讯号的干扰、提高分析准确性。ViviOn™ 透过多项 ISO 10993 生物相容性检验项目，符合美国/欧洲/日本药典检验标准，于美国 FDA 药物管理文件 (DMF) 中注册。

相关应用：针筒、小药瓶、药物包装、UV比色槽、微孔盘、荧光检测盘、生物芯片、医用包材。



ViviOn™ (CBC) is safe and reliable for medical applications with features of extreme purity, excellent UV durability, superb chemical resistance and gamma sterilization resistant. Furthermore, ViviOn™'s high UV transmittance and low auto-fluorescence properties could increase the accuracy and reliability of the diagnostic analysis. ViviOn™ passed US Pharmacopeia <88> Class VI and <661>, JP Pharmacopeia 7.02, selected chapters of ISO 10993 biocompatibility, and is registered in the FDA Type III Drug Master File.

Applications include: pre-filled syringe, vial, cuvette, microplate, microfluidics chip, medical packaging.

**展台号：6.2C62**

台湾聚化学品股份有限公司  
USI CORPORATION

## 医用级PLA、PEEK 3D耗材挤出设备 Medical Grade PLA PEEK 3D Filament Extrusion Line

3D打印的PEEK特别受医疗领域的关注，其具有生物相容性和可消毒性，可用于定制化植入物的制造。PEEK具有类似人体骨骼的特性，3D打印的PEEK植入物可以促进植入物周围组织的重建，加速骨融合，当前3D打印制作的PEEK医疗植入提已经用于临床，我司研发设计的医疗级PEEK PLA打印丝挤出设备，可生产出高精度稳定性强的医疗级耗材，满足于医疗临床的使用。

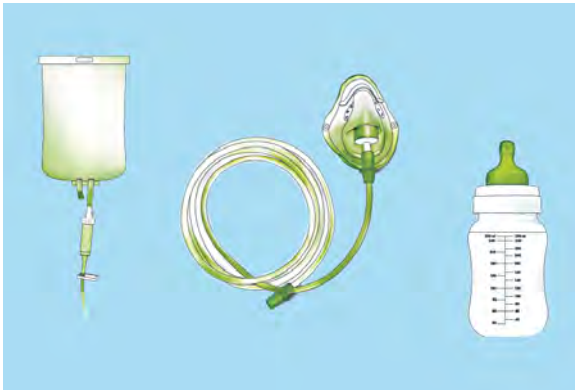
The 3D-printed PEEK is of particular interest in the medical field because it is biocompatible and detoxicable and can be used in the manufacture of custom implants. PEEK has characteristics similar to human bone, and 3D-printed PEEK implants can promote the reconstruction of tissues around the implants and accelerate bone fusion. Currently, 3D-printed PEEK medical implants have been used in clinical practice. Our company has developed and designed medical grade PEEK PLA printing filament extrusion equipment. Medical grade consumables with high precision and strong stability can be produced to meet the needs of medical clinical use.

**展台号：7.1B03**

张家港市弗兰德机械有限公司  
ZHANGJIAGANG FRIEND  
MACHINERY CO., LTD.



## Mediprene 500M标准规格用于医疗产品应用的TPE Mediprene 500M Standard Series TPE for Medical Applications



### 展台号：6.2D85

海克斯波聚合材料(佛山)有限公司  
HEXPOL COMPOUNDING  
(FOSHAN) CO., LTD.

Mediprene牌号可使用伽马射线、环氧乙烷和蒸汽进行灭菌，代表性牌号已通过ISO 10993-5的细胞毒性测试以及ISO 10993-4(溶血)、ISO 10993-10(皮内反应性和致敏)、ISO 10993-11(急性全身毒性)和USP VI级的生物相容性测试。Mediprene TPE已被证明是PVC的有力替代品；它们完全是合成的，不含乳胶，从而将过敏风险降至最低。Mediprene 500M标准系列，它们的硬度从0邵氏A到58邵氏D不等。它们具有半透明和透明等级，也易于着色。可应用在触感柔软的把手，密封膜，气道管理，面罩，医疗包装，伤口护理等等。

Mediprene grades are sterilizable with gamma, EtO and steam and representative grades have passed cytotoxicity tests according to ISO 10993-5 and biocompatibility tests according to ISO 10993-4 (Hemolysis), ISO 10993-10 (Intracutaneous Reactivity and Sensitization), ISO 10993-11 (Acute Systemic Toxicity) and USP Class VI. Mediprene TPEs have proven to be a strong alternative as replacement to PVC; they are completely synthetic and latex free thereby minimizing allergy risks. Mediprene 500M Standard Series, They are available in hardnesses from 0 Shore A to 58 Shore D. With translucent and transparent grades, they are also easy to colour. It can be applied in Soft-touch grips, Resealable membranes, Airway management, Face masks, Medical packaging, Wound care, etc.



医用PVC专用稳定剂  
PVC Medical Stabilizer

AIMSTA膏状PVC稳定剂应用于医疗用PVC塑料血袋、输液袋、尿袋、管材等。符合欧美环保安全，具有生物相容细胞毒性测试，洁净厂房及设备相关的生产资质及质量认证体系。

AIMSTA paste PVC stabilizer is used in medical PVC plastic blood bags, infusion bags, urine bags, pipes, etc. It complies with European and American environmental protection and safety, and has biocompatibility cytotoxicity testing, production qualifications and quality certification systems related to clean plants and equipment.

### 展台号：8.2K23

深圳市志海实业股份有限公司  
SHENZHEN AIMSEA INDUSTRIAL CO., LTD.

## PHA口腔修复材料 PHA Oral Tissue Repair Material

利用PHA制做的口腔修复膜具备生物相容性高、降解性好，降解周期宽，机械强度可调等特性。

Oral repair membranes crafted from PHA are characterized by their high biocompatibility, effective degradability, extensive degradation period, and tunable mechanical strength.

### 展台号：1.2H72

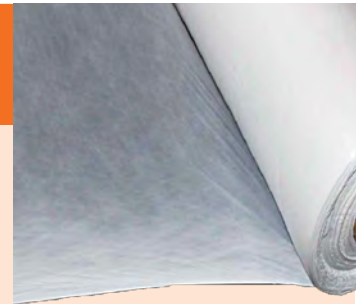
北京微构工场生物技术有限公司  
BEIJING PHABUILDER BIOTECHNOLOGY CO., LTD.



## 聚四氟乙烯高强膜 PTFE High Strength Membrane

膨体聚四氟乙烯微孔膜具有独特的结构和性能，生物相容性良好，同时具有在软组织内即可制动又较易取出的特点，非常适合做脏器修补材料和整形外科材料。我公司拥有国内首台套PTFE微孔膜数字化生产线，保证了膜的厚度、孔隙率等技术指标的均匀性，采用独特的生产工艺可以使PTFE 高强膜实现较高的纵横向拉伸强度。

EPTEF membrane has a unique structure and properties, good biocompatibility, and the characteristics of being able to brake in soft tissues and easy to remove, making it very suitable for organ repair materials and plastic surgery materials. Our company has the first digital production line for PTFE micro-porous membranes in China, ensuring the uniformity of technical indicators such as membrane thickness and porosity. By adopting a unique production process, PTFE high-strength membranes can achieve high longitudinal and transverse tensile strength.



**展台号：7.2D53**  
山东森荣新材料股份有限公司  
SHANDONG SENRONG  
NEW MATERIALS CO., LTD.

## 医疗级热塑性弹性体 (TPE-S) Medical Grade Thermoplastic Elastomers (TPE-S)



PHOENIX™医疗级热塑性弹性体 (TPE-S) 符合国际生物相容性标准，适用于医疗和制药业的各种医疗器材需求，目前有透明、半透明、白色和黑色可供选择，用途广泛。

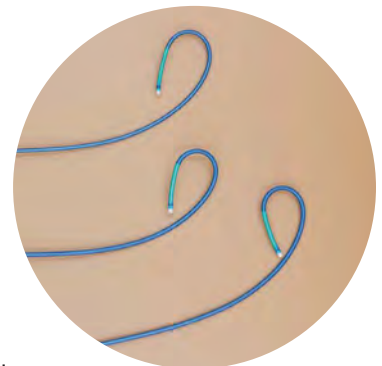
Complied with international regulatory of bio-compatibility, PHOENIX™ medical grade product lines are suitable for various medical devices requirements in medical and pharmaceutical industries. PHOENIX™ Thermoplastic Elastomers (TPE) are now available with transparent, translucent, white, and black colors for a wide range of uses.

**展台号：6.2A109**  
丰炬业有限公司  
PHON TECH INDUSTRIAL COMPANY

## Mevopur™ 医疗着色剂和配方 Mevopur™ Healthcare Colorants and Formulations

Mevopur™医疗级着色剂和配方专为医疗设备而设计，适用于要求严苛的医用导管等。Mevopur™着色剂可最大程度地降低客户在设计和制造过程中所存在的风险，从而实现产品一致性、可靠性并遵从相关法规，可在PEBAX、TPU、PA12等树脂上着色，提升与硫酸钡到钨的显影材料结合的灵活性。Mevopur™原料经生物相容性 (ISO10993和USPVI)、美国和欧盟药典以及ICH-Q3D可提取金属等预测试。

Mevopur™ healthcare colorants and formulations are specifically designed for medical devices, addressing applications with higher risk such as catheter and tubing. Mevopur™ colorants may help to tackle challenges related to product consistency, reliability, and regulatory compliance by minimizing the risk in customer design and manufacturing process. Mevopur™ aids in coloring of resins like PEBAX, TPU, PA12, offering the flexibility of incorporating radiopaque fillers from barium sulphate to tungsten. Raw materials of Mevopur™ undergo pre-testing for biological evaluation (ISO10993 and USP Class VI), US and EU Pharmacopeia and ICH-Q3D extractable metals. Tailoring to diverse manufacturing processes, our colorants are available as concentrates for polymer dilution or as ready-to-use formulations.



**展台号：8.2F31**  
埃万特集团  
AVIENT CORPORATION

# 全球医疗健康产品 新趋势下的材料选择

## New Trends in Global Healthcare Products and Implications for Materials

新冠疫情永久改变了全球医疗产业，它不仅加快了新技术和新产品的应用，提高了对可持续和韧性的关注；同时，疫情也加速了医疗健康产品在开发、分配以及流通等方面的创新，深刻影响下一代医疗健康产品的发展趋势，如家用化，个疗化，超越化，智慧化，永续化等。

The pandemic has permanently changed the global healthcare industry, not only accelerating the adoption of new technologies and products, but also increasing the focus on sustainability and resilience. At the same time, the epidemic has also accelerated the development trends of next-generation medical and health products.

### 家用化

治疗继续走出正规的医疗环境，使患者能够舒适地在家中或“在旅途中”接受治疗。

### 个疗化

现代人透过健康治疗的正念活动寻求自我拯救。以科技为支撑的养生疗愈设备，是现代入充实自我的理性投资。

### 超越化

“超人类主义”在科技发展中正成为现实。美容、抗衰老和身体增强技术扩大了人类的可能性，从根本上改变了人们对老化和生死看法。

### 智能化

人工智能赋能的未来医疗，降低病人就医门槛，让更多人足不出户就能接受AI医师或人类医师的治疗。

### 可持续化

医用设备的制造需要选择可持续材料，从源头落实可持续发展概念。此外，必须在设计阶段充分考虑材料的全生命周期，以确保其长期价值和广泛应用。

这些趋势将加速药物输送、穿戴式健康设备等多种医疗应用的发展，其材料更需兼具坚固耐用与结构完整性的特性。

为应对这些挑战，科思创推出创新型医用聚碳酸酯全域解决方案，包括医疗级低摩擦模克隆®、玻纤增强模克隆®、高耐冲击模克隆®、高流动模克隆®、超高耐化的模本兰®和拜本兰®等聚碳酸酯及聚碳酸酯共混材料。这些解决方案在构建可持续医疗健康产品方面解决了许多难题，包括减轻重量、保持平稳、动作可控，以及在弹簧载荷下和辐射灭菌后保持韧性、刚性和尺寸稳定性。此外，科思创的医用模克隆®RE材料，在保持原生材料性能的同时还含可再生成分，从而降低产品碳足迹，赋予医疗保健产业更高的可持续性。



### Home-use

Treatments continue to move out of formal healthcare settings allowing for patients to be in the comfort of their home or "on-the-go".

### Self-treatment

Modern people seek self-rescue through health-healing mindful activities. The health healing equipment supported by technology is a rational investment for modern people to enrich themselves.

### Beyond Human

"Transhumanism" is coming to reality in the development of tech. Beauty, anti-aging, and physical enhancement technologies have expanded human possibilities, radically changing the way people think about aging and life and death.

### Meta Med

The future medical care empowered by artificial intelligence reduces the threshold for patients to seek medical treatment, enabling more people to receive treatment from AI or human doctors without leaving their home.

### Sustainability

The selection of more sustainable materials in the development of medical devices has gained increasing consensus. In addition, the full life cycle of materials must be considered in the design stage to ensure their long-term value.

These trends will accelerate the development of a wide-ranging medical applications, such as drug delivery and wearable health devices, with increasingly demanding requirements on materials.

Covestro offers a comprehensive portfolio of medical-grade polycarbonate solutions in response to these challenges, providing a diverse range of functions including low friction, glass-filled, high impact resistance, high flow and hyper chemical resistance. These solutions address many of the challenges in producing more sustainable healthcare products by reducing weight, lowering friction for smooth action, and maintaining toughness and dimensional stability under spring load and after radiation sterilization. Covestro also offers a drop-in medical Makrolon® RE polycarbonate with attributed renewable content and lower carbon footprint that contributes to enhanced sustainability of healthcare products.

# 医疗器械及模具

## Medical Devices and Medical Moulds



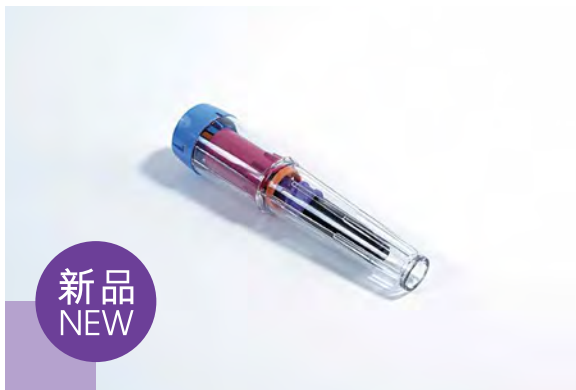
性能优异的材料能提高医疗器材的表现，而高品质的模具则能提升医疗器材的精密度和性能，是提高医疗诊断的准确性和治疗效果的重要因素之一。

Advanced materials can improve the performance of medical devices, while high-quality molds can improve their precision and performance, therefore both are important factors in improving the accuracy of medical diagnosis and treatment result.

### 医疗级模克隆®玻纤增强GF系列 Makrolon® Medical Glass-filled Polycarbonates

玻纤增强模克隆®可用于设计设备外壳或外科手术器械的其他部件，从而取代金属部件。透过玻璃纤维增强模克隆®，聚碳酸酯部件可以变得更小巧、更纤薄，从而整体减轻重量，并提高手持式和便携式设备的易用性。

Glass-filled Makrolon® polycarbonate delivers superior and long-lasting strength for critical medical devices demanding reliable performance. Glass-filled polycarbonates including sterilization options feature properties which are suitable for use in parts that are exposed to high static loads over long periods in high temperature conditions. Glass-filled polycarbonate is playing an increasingly important role in the areas of manufacturing and design for medical devices and surgical equipment. They can be used to replace metal parts surgical equipment. They can be used to replace metal parts or to downgrade existing plastic existing.



新品  
NEW

展台号：7.2C38

科思创(上海)投资有限公司

COVESTRO (SHANGHAI) INVESTMENT CO., LTD.

新品  
NEW



### TINA-PMC 热嘴系列 TINA-PMC Nozzle Series

TINA-PMC热嘴系列是聚焦于多腔产品应用，特殊的热嘴结构设计及材质应用实现了更佳的热嘴热量及阀针和浇口寿命，适合于更小模具开框尺寸及紧凑的排位，合理的热嘴结构设计及先进的零件加工工艺实现了更好的产品浇口品质及高腔系统防漏性能，大大改善了模具量产的稳定性。

TINA-PMC nozzle series is focus on multi-cavity product applications. Based on special structural design and material applications to achieve optimal thermal profile of nozzle tip and provide longer lifespan of valve pin and gate insert, suitable for small nozzle pocket and compact pitch cutout as well. Advanced manufacturing technologies with reliable nozzle design to achieve better gate quality of part and effective leakage prevention performance of the hot runner system, improve mold mass productions stability.

展台号：5.2F48

柳道万和(苏州)热流道系统有限公司

YUDO (SUZHOU) HOT RUNNER SYSTEMS CO., LTD.

## 宝理塑料的医疗应用夺钢®/DURACON® POM (聚甲醛) PM系列 Polyplastics DURACON® POM (Polyoxymethylene/Acetal) PM Series for Medical Applications

宝理塑料面向医疗市场推出了两种POM品级的产品。中等粘度型的PM09S01N将提供POM产品备受期待的、标准且可靠性高的机械性能与成型性。而高流动型PM27S01N将在更复杂、功能性更强的医疗器械方面协助实现薄壁化、小型化与轻量化。这些品级符合医疗器械制造商要求应对的主要法规，可望广泛应用于与药剂或药液直接接触的医疗器械或给药装置等用途。此外，还可在高温蒸气及环氧乙烷气体(EtO)条件下进行灭菌。"

Polyplastics offers two acetal grades for the medical market. With a standard viscosity grade, PM09S01N, which delivers the reliable mechanical properties and moldability expected from POM. In addition, a high-flow, grade, PM27S01N, will enable wall-thinning, miniaturization, and lightweighting of medical devices that are becoming more complex and highly functional. These grades meet medical device manufacturer's key requirements and are expected to be used for a wide range of applications such as drug contact and delivery. Both grades offer global market and food regulatory compliance. The materials can be sterilized under hot steam and ethylene oxide (EtO) conditions.



展台号：7.2C81

宝理工程塑料贸易(上海)有限公司  
POLYPLASTICS (SHANGHAI) LTD.

## 凯柏胶宝®：用于外科缝合器手柄的医疗和保健系列 TPE KRAIBURG TPE: Medical & Healthcare TPE Series for Surgical Stapler Applications

材料优势：

- 不含动物成分、PVC、硅胶及乳胶
- 可在121°C的高压蒸气灭菌器或使用乙烯氧化物(EtO)进行灭菌
- 提供透明和自然色两种颜色选择，具有预先着色的选择
- 具有出色且柔软的触感表面
- 具有良好的压缩性能
- 符合ISO 10993-5、GB/T 16886.5、中国GB 4806-2016、美国FDA CFR 21、欧盟第10/2011号法规、REACH和RoHS的标准

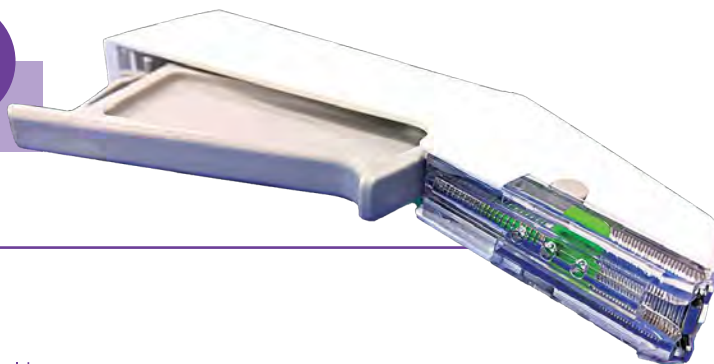
Material Advantages:

- Free from animal ingredients, PVC, silicone and latex
- Sterilizable by autoclave at 121°C and EtO
- Available in translucent and natural color, pre-coloration available in-house
- Excellent haptics and a soft-touch surface
- Good compression set properties
- Complies with ISO 10993-5, GB/T 16886.5 (cytotoxicity), China GB 4806-2016, US FDA CFR 21, Regulation (EU) No 10/2011, REACH and RoHS

新品  
NEW

展台号：7.2K42

凯柏胶宝®  
KRAIBURG TPE





新品  
NEW



### 医疗器械嵌件全电动注塑成型技术 All-electric Injection Molding Technology for Medical Device Inserts

爱科全电动E系列几乎可以满足所有医疗行业的应用领域：相比传统液压注塑机，全电动注塑机所有动作均由伺服电机完成，杜绝液压油污染风险；更高的产品精度，让精密医疗部件注塑成为可能；标配316不锈钢套装组件，满足更高要求的医疗级需求。

AKPLAS all-electric E series can meet almost all application fields in the medical industry; compared with traditional hydraulic injection molding machines, all movements of all-electric injection molding machines are completed by servo motors, eliminating the risk of hydraulic oil contamination; higher product accuracy allows precision medical care Injection molding of parts is possible; standard 316 stainless steel set components meet higher medical grade needs.

展台号：5.1A24

杭州爱科机械有限公司  
HANGZHOU ATECH MACHINERY CO., LTD.

### 奥世弹性体医用级TPE材料解决方案 Audia Elastomers Medical Grade TPE Solutions

奥世达弹性体医用TPE系列产品，结合了橡胶的性能优势和热塑性塑料的加工性能，适用于医疗器械、包装、IVD、个人护理和其他受监管的医疗市场各类应用，配方不含乳胶、邻苯二甲酸盐和卤素，使用符合FDA、医疗或食品接触标准的原料，符合USP VI级，ISO 10993标准，符合MDR法规。

Audia Elastomers medical TPE compound is a range of Thermoplastic Elastomer compounds that combine the performance benefit of vulcanized rubber with the processing properties of thermoplastics. The compounds are suitable for a wide variety of applications in medical devices, packaging, IVD, personal care and other regulated medical markets. Audia Elastomers compounds are formulated to be free of latex, phthalate, and halogen, using FDA, medical or food contact compliant raw materials to meet USP Class VI, ISO 10993 standards and Meet MDR regulations.



展台号：6.2A86

奥世达弹性体(深圳)有限公司  
AUDIA ELASTOMERS / AUDIA SUNSTAR  
ELASTOMER (SHENZHEN) CO., LTD.



### 硅 PC Silicon Polycarbonate (Si-PC)

Si-PC是一种矽基聚碳酸酯，具有优异的耐化学性，抗低温冲击性及耐热性。TRIREX SC4-3022PN1属于Si-PC系列，是为应用于需要耐化学的超声波机器和X射线等医疗器械和设备而研发的材料。

Si-PC is a silicon based polycarbonate that has excellent chemical resistance (especially sterilizers), low temperature ductility, strong inherent strength and thermal resistance. TRIREX SC4-3022PN1 is a grade that falls under the Si-PC family, and is a type of resin that has been developed for application on medical devices and equipment such as ultrasound machines and x-rays that require stronger chemical resistance.

展台号：7.2D48

三养社  
SAMYANG CORPORATION

## PEEK 医疗产品热流道成型注塑 PEEK Medical Products Hot Runner Injection Molding



专门针对PEEK塑料应用设计热流道系统，以满足PEEK注塑成型的高温高压要求和长期稳定生产。可精确控制树脂熔融温度，并可长时间保持热流道420度和模具200度的加工条件下稳定生产，每个成型件重量可小至0.1g，可控制流道内的滞留时间，确保材料不会分解；也可用直接进胶的方案，以获得高精度和高质量的产品，并且无废料产生，而提高生产效率 and 降低成本。

Using special steel and designing the hot runner manifold, nozzle and temperature control system specialty for PEEK plastic molding applications, which can meet the high-temperature and high-pressure requirements of PEEK molding processing and long-term stable production. The hot runner system can accurately control the resin melting temperature and maintain the processing condition of hot runner temperature 420 °C and mold temperature 200 °C for long time and stable production, each molding part weight can be as lower as to 0.1g, can control the residence time inside the flow channel to ensure that the materials do not degrade; and also can use direct gating solution to have high precision and quality product, and no wasted resin materials to enhance the production efficiency and reduce cost.

### 展台号：5.2F84

南烽工程有限公司

EVERFINEST ENGINEERING CO., LTD.

## 国珠采血管模具 Guozhu has PET BCT (short for blood-collecting tube) Mold

国珠拥有成熟配套的PET采血管模具框架和模具间距平面图，以满足各种领先平台和采血管应用的需求。我们的模具特征包括：适形冷却技术、特殊特层处理、先进的热流道技术和绝对可互换性。

PET Blood vessel mold Guozhu has PET BCT (short for blood-collecting tube) mold frames and pitch layouts available to accommodate a variety of leading platforms and BCT appnology, Our molds feature: conformal cooling technology, special coatings, advanced hot runner technology, and absolute interchangeability.



### 展台号：5.2F111

广东国珠模具科技有限公司

GUANGDONG GUOZHU MOLDS TECHNOLOGY CO., LTD.

## LUVOCOM®PEEK手柄 LUVOCOM® PEEK Handle

LUVOCOM®PEEK是手柄和器械的理想材料。与金属材料解决方案相比，它提供了卓越的触感和轻量化设计。其卓越的耐化学性为组件品质、耐用性、设计和色彩提供了广泛的设计选择。

LUVOCOM® PEEK is the ideal material for handles and instruments. Compared with metallic solutions, it offers exceptional haptics and weight reduction. Its outstanding chemical resistance opens up a wide range of design options in terms of component quality, durability, design and color.

### 展台号：7.2D62

雷孚斯(上海)化工有限公司

LEHVOSS (SHANGHAI) CHEMICAL CO., LTD.

## 德国GEISS T11全自动双层热成型机 GEISS T 11 Thermoforming Machine

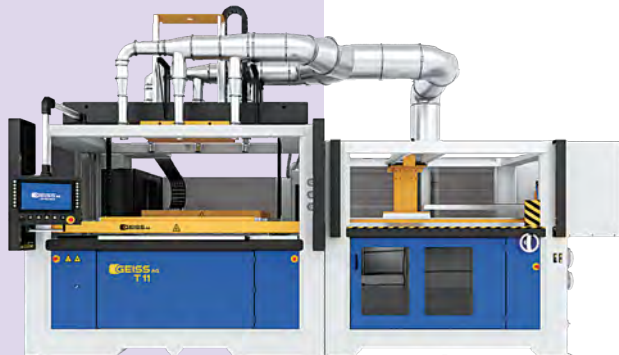
德国GEISS厚片吸塑机，具有节能效率高等优点。吸塑出来的产品一致性高，广泛用于医疗器械外壳的吸塑，如大型医疗检测设备CT机的外壳。

The advantages of GEISS thermoforming machine is energy saving and high efficiency. The repeatability is high. Now the machine is being widely used for the outer shell of medical machine, such as CT machine.

### 展台号：2.1H47

斯伊利商贸（上海）有限公司

C. ILLIES TRADING (SHANGHAI) CO., LTD.



## 模本兰® 超耐化 CR 系列 Makroblend® CR Hyper Chemical Resistant Polycarbonates



新品  
NEW

模本兰® 超耐化 CR 系列产品可用在融合了电子功能的下一代可穿戴智能化保健电子设备，为消费者带来更好的产品的性能和用户体验，完美耐受日用精油和消毒剂的腐蚀，具有更高热变形温度，高韧性，高抗冲，为下一代保健电子设备提供可靠的外壳材料。

Covestro developed a new portfolio of hyper chemical resistant polycarbonates for the next generation of wearable intelligent healthcare electronic devices that integrate electronic functions, bringing consumers better product performance and user experience. Makroblend® CR polycarbonates could perfectly resist the corrosion of daily essential oils and disinfectants, with higher heat deflection temperature, high toughness, high impact resistance, which provides reliable shell materials for the next generation of healthcare electronic devices.

### 展台号：7.2C38

科思创（上海）投资有限公司

COVESTRO (SHANGHAI) INVESTMENT CO., LTD.

## 聚苯砜 聚砜 PPSU PSU

PPSU, PSU用于医疗，具备优异的尺寸稳定性和机械性能，耐高温，耐反覆消毒，可用于连接器，消毒盒，托盘等。

PPSU PSU for medical, with excellent dimensional stability and mechanical properties, high temperature resistance, resistance to repeated disinfection, can be used in connectors, disinfection boxes, trays, etc.

### 展台号：7.2B16

山东浩然特塑股份有限公司

SHANDONG HORAN SUPER ENGINEERING  
PLASTICS CO., LTD.



# 中国医疗耗材 的发展趋势

## Development Trends of Medical Consumables in China



中国医疗耗材市场规模近年来保持了稳定的高速增长，2024年达到2,000亿元。随着中国老龄化、医疗保障体系完善、医疗技术进步、医疗消费升级等因素的推动，中国医疗耗材市场需求将持续扩大。中国医疗耗材市场的发展趋势主要表现在以下几个方面：

**国产化替代稳步推进。**中国医疗耗材市场目前仍存在较大的进口依赖度，尤其是在高值医用耗材领域，进口产品占据了主导地位，如心脏介入器械、人工关节等。然而，随着国内企业的不断创新和投入，以及政策的鼓励和支持，国产化替代的步伐正在加快，国内企业的市场份额逐渐提升。预计未来国产化替代将在更多高值医用耗材领域的突破，提高国内产品的市场占有率和认可度。

**产品结构优化升级。**中国医疗耗材市场目前仍以低值医用耗材为主，占超过60%。低值医用耗材的市场竞争较激烈，产品同质化现象严重。为了摆脱低端竞争的困境，越来越多的低值医用耗材企业开始向中高端产品转型升级，透过技术创新、品牌建设、渠道拓展等方式，提高产品的附加价值和市场份额。预计未来中国医疗耗材市场的产品结构将进一步优化升级，高值医用耗材的市占比将逐渐提高，低值医用耗材的产品质量与档次也将不断提升。

**创新驱动引领发展。**随着医疗需求的多样化和个人化，医疗耗材的创新也呈现出多元化和差异化的特点，如智能化、微创化、生物化、定制化等。一方面，医疗耗材企业加大了研发投入和创新力度，不断推出新的产品和技术，满足市场和临床的需求。另一方面，医疗耗材企业也加强了与科研机构、医疗机构、行业协会等的合作，形成了产学研用的创新联盟，共同推动医疗耗材的技术进步和标准制定。

综上所述，中国医疗耗材市场正处于快速发展的阶段，面临着巨大的市场空间与发展机遇，同时也面临着国产化替代、产品结构优化、创新驱动等发展趋势与挑战。唯有抓住窗口期的机遇，踏实做好产品的升级换代，才能在未来日益严峻的竞争正占据有利地位。

The scale of China's medical consumables market has maintained a steady and rapid growth in recent years, reaching 200 billion yuan in 2024. With China's aging population, the improvement of medical insurance system, the advance of medical technology, and the upgrading of medical consumption, the market demand for medical consumables in China will continue to expand. The development trend of China's medical consumables market is mainly manifested in the following aspects:

**Localization substitution is steadily advancing.** At present, China's medical consumables market still has a large dependence on imports, especially in the field of high-value medical consumables, imported products occupy a dominant position, such as cardiac interventional devices, artificial joints, etc. However, with the continuous innovation and investment of domestic enterprises, as well as the encouragement and support of policies, the pace of domestic substitution is accelerating, and the market share of domestic enterprises is gradually increasing. It is expected that in the future, domestic substitution will make breakthroughs in the field of more high-value medical consumables and improve the market share and recognition of domestic products.

**Optimization and upgrading of product structure.** China's medical consumables market is still dominated by low-value medical consumables, accounting for more than 60%. The market competition for low-value medical consumables is fierce, and the homogenization of products is serious. In order to get rid of the dilemma of low-end competition, more and more low-value medical consumables companies have begun to transform and upgrade to mid-to-high-end products, and improve the added value and market share of products through technological innovation, brand building, channel expansion, etc. It is expected that in the future, the product structure of China's medical consumables market will be further optimized and upgraded, the market share of high-value medical consumables will gradually increase, and the product quality and grade of low-value medical consumables will also continue to improve.

**Innovation-driven development.** With the diversification and personalization of medical needs, the innovation of medical consumables also presents diversified and differentiated characteristics, such as intelligence, minimally invasive, biological, customized, etc. On one hand, medical consumables companies have increased R&D investment and innovation, and constantly launched new products and technologies to meet market and clinical needs. On the other hand, they have also strengthened cooperation with scientific research institutions, medical institutions, industry associations, etc., forming an innovation alliance of industry, academia, research and application, and jointly promoting the technological progress and standard formulation of medical consumables.

To sum up, China's medical consumables market is in a stage of rapid development with lots of development opportunities. It is also facing development trends and challenges such as localization substitution, product structure optimization, and innovation-driven. Only by seizing the opportunity of the window period and doing a good job in product upgrading can we occupy a favorable position in the increasingly severe competition in the future.



# 医用耗材 Medical Consumables

现代医学的进步促使医用耗材朝着高品质、高性能和更环保的方向发展，而先进的材料和设备是满足以上需求的关键。The advance of medicine has prompted the development of high quality, high performance, and environmentally friendly medical consumables. Advanced materials and production equipment are the keys to meet the above requirements.



## VECTOR® 新型医用胶塞 TPE VECTOR® Novel TPE for Medical Stopper

VECTOR® 医疗解决方案推出了一种新型的TPE，专为医用胶塞设计，采用特殊的分子构型，实现快速的自密封性。突破市售材料容易漏液的困境。TPE容易加工，搭配双色射出成型，零边角料损耗，并具热塑性回收价值。胶塞实现零落屑、易穿刺和拔针，符合法规ISO 15759标准要求。适合替代传统硫化橡胶等热固性材料。

VECTOR® medical solution introduces a novel TPE designed for medical stoppers capable of maintaining its rapid self-sealing properties. This innovation mitigates the challenge posed by existing materials in the market, which are prone to leakage. TPE is easy to process and can be used with dual-color co-injection molding. Its thermal recyclability feature significantly reduces waste throughout the manufacturing process. The finished product boasts feature such as zero fragment residue, easy puncture, and recyclability, aligning with ISO 15759 standards. The solution is a suitable alternative to non-recyclable/thermosetting materials like vulcanized rubber.

新品  
NEW

展台号：6.2C02  
台橡股份有限公司  
TSRC CORPORATION

## ENGEL e-mac 100 机器生产8腔移液吸头 An ENGEL e-mac 100 Machine Producing 8 Cavities of Pipette Tips

ENGEL e-mac 100 机器生产8腔移液吸头，ENGEL 将为您提供在制造医疗零件中的机器、模具和自动化的一体化解决方案。

e-mac 机器特性：

1. 更好的产出以及较小的占地面积
2. 广泛的技术选项
3. 较大的拉杆间距
4. iQ系列产品可配置
5. 智能紧凑型的伺服液压工作站可选
6. 全新的电动注射单元，为客户提供更大的灵活性

An ENGEL e-mac 100 producing 8 cavities of pipette tips, ENGEL will provide you with an update on new trends and technologies in the medical industry.

e-mac features:

1. Maximum output with smallest footprint
2. Wide scope of individual options available
3. Large tie-bar spacing
4. iQ products ready
5. Intelligent and compact integrated servo-hydraulic available
6. New all-electric injection units for maximum flexibility for customers

展台号：5.1C42

恩格尔机械(上海)有限公司  
ENGEL MACHINERY  
(SHANGHAI) CO., LTD.



新品  
NEW

## Melt-Cube 侧浇口技术 Melt-Cube Side Gating

Melt-Cube -先进的直列式侧浇口 Melt-CUBE 设计用于需要倾斜喷嘴尖端或特殊双浇口功能的应用。每个 CUBE (立方体) 可同时对 16 个型腔提供直接侧浇口解决方案。可消除多余流动的废料, 提高成型产品的质量。非常适合用于深腔医疗部件, 例如吸液管、注射针筒、针套等。

Melt-Cube – ADVANCED IN-LINE SIDE GATING, the Melt-CUBE design for applications requiring angled tips or specialized dual-gating capabilities. Simultaneous direct side gating solution of up to 16 cavities per Cube eliminates scrap from sub-runners and enhances part quality. Perfect for high cavitation molds producing deep draw Medical parts such as pipette tips, syringe barrels, needle shields and more.



展台号: 5.2F15  
马斯特模具有限公司  
MOLD-MASTERS CO., LTD.

## 精密中心静脉导管挤出生产线 Precision Central Venous Catheter Production Line

该系列属于高精度挤出设备分别由高精度挤出主机, 熔体齿轮计量泵(选配)、高精度挤出模具、高稳定真空成型冷却水槽, 精密伺服牵引切断连体机, 输送机组成。客户可选配进口闭环系统控制整机组的稳定性。适用材料: PEBAX、PA(尼龙和改性尼龙)、PP、PE、PE+硫酸银等其它材料。

This series of high precision extrusion equipment consists of extrusion main machine, melt gear metering pump (optional), extrusion die, high stable vacuum forming cooling tank and precision servo haul-off and cutting machine and conveyor. Customer can choose imported closed-loop system to control stability of the complete utility. Applicable materials: PEBAX, PA (Nylon, Modified nylon), PP and PE, PE + BaSO<sub>4</sub>, etc.

### 展台号: 2.2B32

东莞市圣安塑胶机械有限公司  
DONGGUAN SHENGAN PLASTIC MACHINERY CO., LTD.



## 可生物降解热塑性聚氨酯弹性体 Biodegradable TPU

TPU 因具备许多优异的特性而闻名, 包括: 优异的伸长率和抗拉强度, 突出的弹性、耐磨、耐油、耐溶剂、耐化学品等性能。ME 系列 TPU 安全环保。具有抗菌抑菌、防汗透气、柔软舒适、可生物降解等优良性能, 在生物医学领域受到广泛关注与应用, 可用于防护服、防护镜、口罩、手套、导尿管、输液贴、创可贴等领域。

Sundow is supplying full range of TPU grades for adhesive application (solvent based adhesives and hot melt adhesives) and general purpose application. ME series TPU is safe and environmentally friendly. It is antibacterial & bacteriostatic, sweat resistant & breathable, soft & comfortable, and biodegradable, therefore it has been widely used in the field of protective clothing, protective goggles, masks, gloves, infusion catheters, infusion stickers, and band-aids, etc.



展台号: 1.2D123  
潍坊山道化学有限公司  
SUNDOW POLYMERS CO., LTD.

## 一次性喉罩产品用 TPE TPE for Disposable Laryngeal Mask

针对市场需求, 我司开发了两款可以粘附成型的 TPE, 透明度高, 可用于医疗领域中一次性喉罩产品。两款 TPE 透过双色注塑完成, 其中硬胶用于手柄部分, 手感舒适、干爽; 软胶与人体口腔接触, 非常柔软。均可透过 ISO 10993 致敏、细胞毒性等多种医疗检测, 安全环保。

For market demand, we have developed two TPEs with high transparency which can be used for disposable laryngeal mask in medical field. The product can be finished by two-color injection molding. The hard TPE is used for handle part, which feels comfortable and dry, and the soft TPE is flexible and can contact with mouth directly. Two of the materials comply with ISO 10993 including sensitization, cytotoxicity and other medical tests etc.



展台号: 6.2C92  
南通普力马弹性体技术有限公司  
NANTONG POLYMAX ELASTOMER  
TECHNOLOGY CO., LTD.

## 专为提升移液枪头精准性而开发Trilliant™ HC导电配方 Trilliant™ HC Electrically Conductive Formulations for Precision Performance Pipette Tips



Trilliant™ HC 导电方案专为移液枪头量身定制，旨在打造兼具导电性、机械性和加工性的材料解决方案。该材料可确保导电性可均匀分布在移液枪头中，并使各生产批次间的导电性保持一致，使移液枪头读数精准、减少静电放电并保持部件性能一致性。定制化配方可带来高流动性和优异的疏水性、不易产生飞边，并具备较高的刚性和低翘曲。

Trilliant™ HC electrically conductive formulations can be specifically formulated for pipette tips to create a unique combination of electrical conductivity, mechanical properties and processability. These materials provide consistent manufacturing run. This enables accurate readings, reduces static discharge, and drives repeatable part performance. These formulations can be customized to achieve high flow and excellent hydrophobic properties, less tendency to flash, and protoprove.

展台号：8.2F31

埃万特集团

AVIENT CORPORATION

## 移液头智能产线系统 Pipette Head Intelligent Production Line System

模块化设计，灵活多变，可根据实际应用工况个性化快速组合。可拓展装滤芯模组，塑封、打码等模组。

Modular design, flexible and changeable, can be personalized and rapid combination according to the actual application conditions. It can expand the filter module, plastic sealing, coding and other modules.

展台号：5.1D71

宁波伟立机器人科技股份有限公司

NINGBO WELL LIH ROBOTS TECHNOLOGY CO., LTD.



## 3D打印康复鞋垫、赢创Evonik植入生物材料加入Raise3D 开放式耗材项目(OFP) 3D Printed Rehabilitation Insoles, Evonik Implant Biomaterials Join Raise3D OFP

1. 矫正鞋垫可对足部矫正、支撑、及刺激，会对足部特定位置直接产生影响，也对膝盖、腰部、骨盆、脊椎及头部产生间接影响，分为半长、3/4长及全长鞋垫。Raise3D提供更好的定制化、精度、美观和轻量化的结构，缩短了整体制作时间及能够使用所获得人体的准确数据。
2. Raise3D 与全球领先的医疗植入生物材料供应商赢创Evonik携手合作，成功开发出适用于其RESOMER® 丝材的3D打印解决方案，RESOMER® 丝材是世界领先的标准、定制化和专用生物可吸收聚合物产品组合。透过Raise3D的开放式耗材计划(OFP)，部分材料现已可用于Raise3D E2 列印机。



1. Orthotic insoles correct, support, and stimulate the foot, directly affecting specific locations on the foot, and indirectly affecting the knee, lower back, pelvis, spine, and head, and are classified as half-length, 3/4-length, and full-length insoles. Raise3D provides better customization, precision, aesthetics, and lightweight construction, shortening the overall fabrication time and the ability to use the accurate data obtained for the human body.
2. Raise3D has partnered with Evonik, the world's leading supplier of biomaterials for medical implants, to successfully develop 3D printing solutions for its RESOMER® filaments, the world's leading portfolio of standard, customized, and specialty bioabsorbable polymers. Selected materials are now available for Raise3D E2 printers through Raise3D's Open FP program.

展台号：5.1H01  
复志科技  
RAISE3D

## 医疗试管模具 Medical Testing Tube Mould

我司有可靠稳定的热流道系统，能够针对各种不同的产品做出最优设计，确保模具的平衡和产品的精度。该产品多应用于血液、流感、尿液等相关检测，可适用常规灭菌方式。本公司相关医疗产品为：一次性注射器，输液器，留置针，采血管，PCR透明管，移液吸头，培养皿，试管，离心管，冷冻管等。

Our company has a reliable and stable hot runner system, which can make the best design for a variety of different products to ensure the balance of the mold and the accuracy of the product. The product is mainly used in blood, influenza, urine and other related detection, and can be applied to conventional sterilization methods. The company's related medical products are: disposable syringe, infusion set, indwelling needle, blood vessel sampling, PCR transparent tube, pipette, petri dish, test tube, centrifuge tube, freezing tube, etc.



展台号：5.2C112

台州市特邦模具  
科技有限公司  
TAIZHOU TEBON  
MOLD CO., LTD.

## Axos 9 控制单元 Axos 9 Control Unit

新的 Axos 9 控制单元为医用产品注塑成型提供了许多优点。鉴于采样率的提高，需要进一步提高注塑精度。对注塑力的高精度测量，是 Netstal 注塑系统独有的特点，可以在狭窄的公差限制和极短的生产周期状况下保持高精度和长期稳定的注塑生产。这一重要特点适用于大批量医疗产品的注塑生产，如移液管和注射器产品。Axos 9 提供了全新的使用者体验。它包括两个单独的触摸屏式 - 即应用和生产用途。集成的“智能操作”选项使生产环境中的机器控制变得简单和安全。

The new Axos 9 controller offers numerous advantages for medical injection molding. Thanks to the higher sampling rate, the leading injection precision has been further increased. The high-precision force measurement, which is unique to Netstal, enables high-precision and long-term stable injection within narrow tolerance limits and with the shortest cycle times. This is an important feature to produce medical mass-produced articles such as pipette tips and syringes. Axos 9 offers a completely new user experience. It includes two separate touch screens for programming the application and production use. The integrated "Smart Operation" option enables simplified and safe machine control in the



展台号：2.1F23

耐驰特机械有限公司  
NETSTAL-MASCHINEN AG

## 环氧大豆油 (医典级) Epoxidized Soybean Oil (Medical Grade)

产品特性：环氧值高，相容性好，  
过氧化值低，医典级。

产品用途：PVC 的增塑剂兼稳定剂，可用  
于医用血袋、输液管等。



Characteristics: High epoxy value, good compatibility and low POV value, medical grade.

Usage: It is used as PVC plasticizer and stabilizer and used for making medical blood bags and infusion tubes and etc.

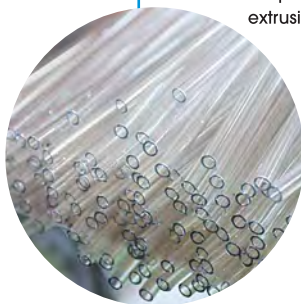
展台号：1.2D11

南通海珥玛科技股份有限公司  
HAIRMA (NANTONG) TECHNOLOGY CO., LTD.

## PVC/PE/PP/Pebax/PEEK/TPU 医疗软管生产线 PVC/PE/PP/Pebax/PEEK/TPU medical tube extrusion line

台湾颀懋有多种不同类型的医疗管挤出生产线，EMS-35、EMS-45、EMS-65、EMS-75等，颀懋的机器可以生产不同尺寸、材质、规格的管材 (PVC/PE/TPU/PP/POE / EVA / FEP / PEEK...) 以满足各种医疗应用需求。

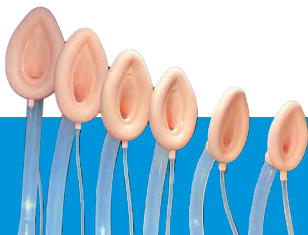
Everplast Taiwan has many different kinds medical tube extrusion line for meeting different requirement, EMS-35, EMS-45, EMS-65, EMS-75 and others, Everplast's machine can be for the different raw material (PVC/PE/TPU/PP/POE/EVA/FEP/PEEK...) for meeting different customer's requirement.



展台号：1.1J52

颀懋实业股份有限公司  
EVERPLAST MACHINERY CO., LTD.





## 硅胶喉罩 Silicone Laryngeal Mask

硅胶喉罩系列，材料采用LSR液态硅胶医疗级20度至60度相结合，低硬度硅胶柔韧性更好塑性多元化，产品采用低硬度注射成型工艺，我司具备产品设计，开模验证，成品量产，生产资质。

Silicone throat mask series, the material is combined with LSR liquid silicone medical grade 20 degrees to 60 degrees, low hardness silicone flexibility is better and the moldability is diversified, the product adopts low hardness injection molding process, our company has product design, mold opening verification, mass production of finished products, and production qualifications.

### 展台号：6.2G107

阿乐密硅胶科技（中山）有限公司  
ARUMI SILICONE TECHNOLOGY (ZHONGSHAN) CO., LTD.

## 毛细管流变仪（平推挤出机） Capillary Rheometer (RAM Extruder)

RAM挤出机使用毛细管流变仪平台，这是聚合物工业中久经考验的测试仪器。高精度的温度控制保证了物料的稳定状态。

不连续挤出RAM挤出机的优点：

1. 处理小批量的材料
2. 透过活塞 - 筒体 - 毛细管系统高精度控制挤出体积
3. 留下的材料几乎没有残留物
4. 剪切热效应低
5. 易于清洗（可拆卸筒体）
6. 易于记录和追踪单一批次
7. 自动切割与激光测径
8. 可以形成 RABS 或隔离器

A RAM Extruder uses the platform of a capillary rheometer, a well proven testing instrument in the polymer industry. High precision temperature control guarantees stable condition within the reservoir.

Advantages of discontinuous RAM extrusion:

1. Processing of very small quantities of material
2. Highly accurate volume output by pistons - barrel - capillary system
3. Nearly residue-free use of the material used
4. Limited shear heating
5. Easy cleaning (removal of the barrel)
6. Easy documentation and tracking of individual batches
7. Simple combination with die swell measurement and cuffing device
8. RABS or isolators formation are possible



展台号：2.1F02  
高特福  
GOETTERT

## 全电动系列注塑机 All-electric Injection Moulding Machines

整台设备可采用定制化机身白色高光耐刮花喷涂，洁净美观且易于清洁，为避免产品的二次污染，机器局部采用不锈钢挡板，高刚性模板结构，刚性好，受力分布均匀；适合精密模具的注射成型，搭载高质量精密模具，确保产品质量。全电驱动，无漏油隐患；无润滑拉杆，模区洁净。非常适合生产医用塑料产品。



In order to avoid the secondary pollution of the product, the machine adopts stainless steel baffle plate, high rigidity template structure, good rigidity and uniform force distribution. It is suitable for injection molding of precision molds and is equipped with high-quality precision molds to ensure product quality. All-electric drive, no hidden danger of oil leakage; no lubrication tie rod, clean mold area. Ideal for the production of medical plastic products.

### 展台号：5.1D82

浙江首力智能装备有限公司  
ZHEJIANG SONLY INTELLIGENT  
EQUIPMENT CO., LTD.

## LSR 射出成型专用机 LSR Injection Molding Machine



多段式精密模具电热温控，配置LSR专用气动封咀和专用料管组，隔热板在标准200℃以内。圆盘或双滑板设计[1上2下模]，取放件更方便，更可利用LSR热固成型时的停顿时间，让操作人员做另一下取模/放，以及清理模具工作，大大增加生产效率。特殊加料射出设计，加料计量更精准。选配可调式抽真空装置，防止产品气泡。

1. Multi-stage mold heater and temperature control.
2. LSR special pneumatic sealing nozzle.
3. Special LSR barrel and screw set.
4. Insulation plate (standard: within 200 °C).
5. Rotary table or double slide tables design (1 upper mold, 2 bottom mold), easy to pick-up.
6. During heat curing, operator can make mold clean and insert, to increase the production.
7. Special screw change and injection design to make more accurate screw charge.
8. Optional vacuum device to prevent product with air bubble.
9. Available for equipped with Turn Table and Top Inj. unit or Side Inj. Unit achieves multi-color molding.

### 展台号：5.1D12

百科机械有限公司  
MULTITECH MACHINERY LTD.

## 立式双色双物料注射机 Vertical LSR Overmolding Injection Machine

双色双物料式注射机多站圆盘设计，转动稳定、定位精确、成品取出，配件埋入简易方便，独立双物料射出系统，确保射出稳定性。可注射不同胶量产品。两上三下容模设计，制品不用出模，减少因出模产生的不良率，缩短生产成型周期，产品产量高，提高产品合格率及机台的灵活生产。

Two-color, two-material injection machine: it has stable rotation, accurate positioning, finished product out, and accessories buried in a simple and convenient way. The independent dual-material injection system ensures its injection stability. It injects different amount of glue. Designing in two-top and three-bottom part mold, it means that the products do not need to mold out, which reduces the defective rate caused by mold out, shortens the production molding cycle, increases the output, improves the product qualification rate and flexible production of machines.



新品  
NEW

展台号：1.1C84

广州盛广誉机械设备股份有限公司  
GUANGZHOU S-GUANGYU MACHINERY  
& EQUIPMENT CO., LTD.



埃克森 PP 6936G2  
ExxonMobil PP 6936G2

PP 6936G2是一种用于熔喷非织造布的超高熔体流动速率茂金属基均聚物树脂。可以在降低工艺能量需求的情况下生产具有优异阻隔性能的织物。

PP 6936G2 is an ultra high melt flow rate metallocene based homopolymer resin designed for melblown nonwoven. Fabrics with superior barrier properties can be produced at reduced process energy demands.

展台号：2.2G51

广东美胶物产有限公司  
MEIJOY MATERIAL INC.

## 液态环保复合稳定剂 Liquid Environmental-friendly PVC Stabilizer

以液体锌、钙锌为主，产品符合REACH、EN71-3、RoHS等相应法规要求。具有高稳定剂性、高透明性、低析出性良好的初期着色性和着墨性等特点，可取代传统的液体钡镉锌稳定剂。产品广泛应用于玩具膜、装饰膜、透明包装膜、胶带膜、地板膜、涂层、人造皮革、医疗手套、输液管等领域。

Based on liquid barium zinc, calcium zinc, compliance with regulations like REACH, EN71-3, RoHS and other related regulations. With the initial coloring and inking characteristics, high transparency, low precipitation excellent heat stability. It can replace the traditional liquid barium cadmium zinc stabilizer. The products are widely used in the fields of toy film, decorative film, transparent packaging film, adhesive tape film, floor film, coating, artificial leather, medical gloves, infusion tube and so on.



展台号：8.2G46

浙江传化华洋化工有限公司  
ZHEJIANG TRANSFAR WHYYON CHEMICAL CO., LTD.

# 市场 Market 展望 Outlook

万华化学  
WANHUA

未来黄金十年，医疗器械国产化替代是产业主旋律。目前我国医疗器械市场本土企业数量较多，但整体规模小而分散，且相对偏向低值产品领域，高端医疗器材原料超七成依赖进口，医疗器械制造领域的“芯片之痛”，国产替代重在材料自主。

随着中国血液透析治疗率提升，血液透析器关键原料亟需国产化。万华化学作为国产医用PC唯一供应商，开发并实现耐辐照医用PC和砜聚合物的规模化生产，确保供应链安全，确保病患生命健康。万华化学在生物医用材料领域持续创新，已形成覆盖聚氨酯、通用塑料、工程塑料、改性塑料和医用化学品等产品组合。医疗PC、聚砜、尼龙12/PEBA、医疗级PMMA、POE、COC/COP等多项产品打破国外垄断，解决我国生物医用原料卡脖子问题，支撑医疗器械产业高质量发展。



In the future golden decade, medical device localisation is the main theme of the industry. At present, China's medical equipment market, the number of local enterprises, but the overall scale of small and scattered, and relatively biased towards low-value products, high-end medical equipment raw materials more than 70% dependent on imports, medical equipment manufacturing field of the "chip pain", local substitution of independent focus on materials.

With the increase of haemodialysis treatment rate in China, the key raw materials of haemodialyzer need to be localised. As the only domestic supplier of medical PC, Wanhua develops and realises the large-scale production of irradiation-resistant medical PC and sulfone polymers to ensure the security of the supply chain and safeguard the life and health of patients. Wanhua Chemical continues to innovate in the field of biomedical materials and has formed a product portfolio covering polyurethane, general-purpose plastics, engineering plastics, modified plastics and medical chemicals. A number of products, such as medical PC, polysulfone, nylon 12/PEBA, medical grade PMMA, POE, COC/COP, etc., have broken the monopoly of foreign countries, solved the problem of the necklace of China's biomedical raw materials, and supported the high-quality development of the medical device industry.

# 药物及医疗包装

## Pharmaceutical and Medical Packaging

创新包装技术为医疗和医药领域带来了更安全、更有效和可持续的解决方案，其特点包括耐冲击、防潮、防伪和易于开启。 Innovative packaging technologies bring safer, more effective and more sustainable solutions to the medical and pharmaceutical fields. Key features include impact resistance, moisture resistance, anti-counterfeiting measures and easy opening.



### 高纯净PP/PE用于吹灌封一体药物主包装

#### High Purity PP/PE used as BFS, Primary Packaging of Pharmaceuticals

利安德巴赛尔为医疗健康产业的客户开创了专门的 Purell 服务理念。Purell 树脂具有良好的美学特性(透明度和光泽度)、出色的感官特性(低味道和低气味)、对大多数化学品的惰性以及宽范围的硬度和机械性能(即使在低温条件下)。

LyondellBasell has developed a dedicated Purell service concept for customers in the healthcare industry. Purell resins offer excellent aesthetic characteristics (clarity and gloss), outstanding organoleptic properties (low taste and odor), inertia to most chemicals and a full range of stiffness and mechanical resistance (even at low temperatures).

#### 展台号：6.2C22

利安德巴赛尔聚烯烃(上海)有限公司  
LYONDELLBASELL POLYOLEFIN (SHANGHAI) CO., LTD.

### 多层共挤阻隔膜生产线

#### Multi-layer Co-extrusion Barrier Film Line



本生产线采用高效率塑化螺杆，配合先进的生产工艺及技术生产多层共挤阻隔膜，精确的挤出控制系统，配合红外线层检测系统，确保产品总厚度及层间比精确控制，针对不同领域阻隔产品，设计有多种形式的成型工艺，特殊设计的收卷装置，控制精度高、操作安全、便利，整机全部触摸屏、PLC控制。广泛应用于药品、医疗配件包装、袋装尿袋膜、医疗保健品等。

This line is designed for producing multi-layer co-extrusion barrier film with high-efficiency plasticizing screw and advanced production technology. Precise extrusion control system and infrared layer detection system ensure accurate control of the total thickness and the interlayer ratio. Also it is designed with various forms of forming processes for different barrier products, specially designed winder, high control precision, safe and convenient operation, and the whole machine is controlled by touch screen and PLC. MAIN APPLICATIONS OF PRODUCT: It is widely used in pharmaceutical and medical accessories packaging, pocket urine bag film, medical care products, etc.

#### 展台号：6.1C76

新乐华宝塑胶机械有限公司  
XINLE HUABAO PLASTIC MACHINERY CO., LTD.



## VICTREX PC™101

新品  
NEW



威格斯近期推出了专为给药和制药接触应用开发的新产品牌号 VICTREX PC™ 101，这是一种以PEEK为基材的材料。此资料符合美国药典 (USP) VI 级最高等级的工业生物相容性认证，同时也符合美国药典 (USP) 661 等业界标准，可用于非植入性药物接触应用。

这种材料有颗粒和薄膜两种，可为制药公司和给药装置制造商提供用于设备或装置的可靠材料，从而为他们带来更多价值。

Victrax launched a new product grade developed exclusively for drug delivery and pharmaceutical contact applications- VICTREX PC™ 101. It's a PEEK-based material which meets the highest levels of Industry biocompatibility certification for USP Class VI and also meets industry standards such as USP 661 for use in non-implantable pharmaceutical contact applications.

This material is available in granules and film and adds value to pharmaceutical production companies and drug delivery device manufacturers by providing access to assured materials for equipment or devices.

### 展台号：7.2B01

威格斯高性能材料贸易(上海)有限公司  
VICTREX HIGH-PERFORMANCE MATERIALS  
(SHANGHAI) CO., LTD.

## SOLUTIONPERFORMER KFS

模块化制袋 - 灌装 - 封口机  
Modular Form-Fill-Seal machine,  
SOLUTIONPERFORMER KFS

SOLUTIONPERFORMER KFS 模块化制袋-灌装-封口机，可全自动生产输液袋、肠外营养液袋或透析液袋，速度高达6000袋/小时。

高效的系统可提供高效能、简单快速的换模、简易的机器操作和直观的用户介面。从用于标准应用的紧凑型基础版本到可单独配置的解决方案，该系统有多种规格可供选择。无论是软管还是注塑成型的药塞连接，无论是单腔袋还是多腔袋 - 袋子的设计几乎没有限制，支持50到6000毫升定制。

Up to 6,000 infusion, parenteral nutrition or dialysis bags can be formed, filled and sealed fully automatically per hour on the SOLUTIONPERFORMER KFS modular form-fill-seal machine.

This efficient system offers high performance, fast and easy tool change, simple machine operation and an intuitive user interface. It is available in various formats, from the compact basic version for standard applications to individually configurable solutions. Whether tubes or injection-molded port connections, whether single-chamber or multi-chamber bags - there are almost no limits to the design of the bags, which can be customized from 50 to 6,000 ml.



### 展台号：2.1H62

德国凯孚尔有限公司  
KIEFEL GmbH

## 日本ASB一步法注拉吹设备 Japan ASB ISBM



从塑料到容器生产在一台机器完成，无需附加操作。改善其他生产设备的低自动化，高能耗和污染问题。在符合医疗行业严格卫生要求的同时，全面提升瓶子的外观和性能，如尺寸精度，抗跌落和顶压。ASB设备可生产COP/COC西林瓶、PC摇瓶、PETG血清瓶、PP输液瓶、PE及PET药瓶等。

The production from plastic resins to containers is completed in a single machine is a major advantage. It improves the low automation, high energy consumption, and contamination problems of other production systems. While meeting the strict hygiene requirements of the medical industry, it comprehensively improves the appearance and performance of the bottle, such as precision in dimensions, drop resistance, and top load. ASB machines can produce COP/COC vials, PC flasks, PETG serum bottles, PP infusion bottles, PE and PET medicine bottles, etc.

### 展台号：8.1C16

香港尼龙有限公司 / ASB  
HONG KONG NYLON COMPANY LIMITED / ASB

## 高性能热塑性塑料制药包装的新型模组化自动化系统 New Modular Automation System for High-performance Thermoplastics on Pharmaceutical Packaging

我们为新型高性能热塑性塑料应用开发了一套完整的系统，包括模具、专用热流道、自动化和注塑机。

我们的新系统可以提供更好的性能，改善以下的痛点：

1. 胶口质量差。
2. 成型工艺窗口窄，能难找到稳定生产的工艺参数。
3. 产品平衡性差。
4. 生产效率低下。

We develop a complete system including mold, special hot runner, automation (EOAT, transfer system, camera inspection, packaging) and molding machine for the new high-performance thermoplastics application.

Our new system can provide better performance to improve below pain points:

1. Poor gate quality (high vestige, stringing, etc.).
2. Narrow window of molding process, it can be difficult to find process parameters for stable production.
3. Poor filling balance.
4. Low production efficiency.



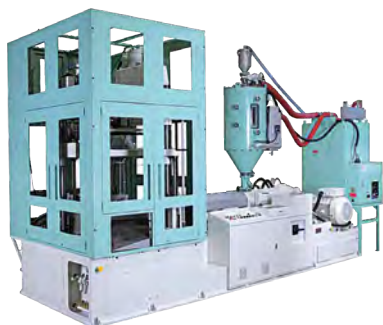
新品  
NEW

展台号：2.1C41  
VTW GmbH

## COC/COP (环烯烃聚合物) 成形 AOKI Direct Heatcon Injection Stretch-Blow Molding for COC/COP BOTTLE

COC/COP具有耐热性和防潮性，在医药品包装领域深受重视。由于原料的物性容易产生应力，是最需要使用AOKI一步法吹塑工艺成形的原料，利用AOKI拉伸吹塑成形机可实现长期稳定生产。青木近几年也着力于对HDPE原料的产品成形进行开发，HDPE利用AOKI一步法注拉吹工艺成形将在本次CHINAPLAS得到首次展示。

COC/COP has excellent heat resistance and moisture barrier properties that are being eyed in particular for chemical container usage. As these materials will produce stress easily, they need to be molded by AOKI one-step blow molding technology, in order to realize stable production of containers. In recent years, Aoki has also made great efforts to develop the product molding of HDPE raw materials, and HDPE using AOKI one-step injection stretching and blowing technology will be demonstrated for the first time in this CHINAPLAS.



展台号：8.1D28  
青木固(佛山)塑料  
研发有限公司  
AOKI TECHNICAL  
(FOSHAN)  
LABORATORY, INC.

## FSC-V603-2 医疗灭菌袋/灭菌管袋制袋机 FSC-V603-2 Medical Sterilization Pouch / Reel Making Machine



专门生产医疗灭菌袋，可生产个体袋、管袋及头袋。  
热封模座采倍力缸，压合力道大且平均，结构经过3D应力精密分析，进行封合作时，整体变形量控制在0.01毫米，密封强度高。加热模组采独立温度控制，加热板经均温测试及调校，各点温差可精准控制在 $\pm 2.5$ 度。

Specializing in the production of medical sterilization bags, it can produce pouches, reels and head bags.  
The heat sealing mold base adopts a multi-force cylinder, which has a large and even pressing force. The structure of heat-sealing bar has undergone precise 3D stress analysis. During the sealing action, the overall deformation is controlled at 0.01 mm.  
The heating module adopts independent temperature control. The heating plate has been tested and adjusted for uniform temperature. The temperature difference at each point can be accurately controlled at  $\pm 2.5$  degrees.

展台号：1.1D69  
华周工业股份有限公司  
HCI CONVERTING EQUIPMENT CO., LTD.

## 高透明硬质PVC药品包材用镁铝锌无毒复合稳定剂 Mg/Al/Zn Non-toxic Stabilizer for High Transparent Rigid PVC Pharmaceutical Packaging Material

我司自主研发的“高透明硬质PVC药品包材用镁铝锌无毒复合稳定剂”可以取代有机锡稳定剂，生产环保高透明硬质PVC药品包装材料，耐候性更好，降低产品成本，是新一代的环保型高效PVC热稳定助剂。产品应用于药品包装材料等高透明硬质PVC压延产品。

The Mg/Al/Zn Non-toxic Complex Stabilizer for High Transparent Rigid PVC Pharmaceutical Packaging Materials can replace organotin stabilizers to produce high transparent rigid calendared PVC pharmaceutical packaging materials. Its weather ability is better and it can reduce product costs. It is an environmental friendly PVC heat stabilizing auxiliary of a new generation. It can be used in high transparent rigid calendared PVC products such as pharmaceutical packaging materials, etc.

展台号：1.2B18

广东森德利环保新材料科技有限公司

SUNDLY ENVIRONMENTAL PROTECTION NEW MATERIAL CO., LTD.



新品  
NEW

## 医疗用途向的永久性抗静电剂 (PELESTAT) Permanent Antistatic Agent for Medical Use (PELESTAT)

PELESTAT是一种具有永久抗静电性的聚合物材料。透过添加在ABS、PP、PE等树脂中，从而赋予其永久抗静电性。主要用于粉状药剂吸入装置的扩口管，药品中间体包材以及药剂容器等。可改善因静电造成的粉体附着，提高粉体输送效率，进而能更精准的控制用药量。

PELESTAT is a polymer material with permanent antistatic properties. By adding ABS, PP, PE and other resins, thus giving it permanent antistatic property. It is mainly used for flaring tube of powder inhalation device, pharmaceutical intermediate packaging material and pharmaceutical container. It can improve the powder adhesion caused by static electricity, improve the powder transportation efficiency, so that the amount of medicine can be more accurately controlled.

展台号：8.2G25

三洋化成工业株式会社

SANYO CHEMICAL INDUSTRIES LTD.

新品  
NEW



## 医药输液盖自动检查、组装、包装生产线 Infusion Cap Automatic Checking & Assembly & Packaging Equipments Production Line

新品  
NEW



实现无需人手干预把注塑，送料，检测，组装，包装等实现自动连线功能。利用在线智能检测技术，能准确的区分合格与不合格品，解脱工人检查强度。可配合实现人工智能系统采集模组，便于生产数据采集，实现生产即时监控生产数据。

First achieve automatic connection function for injection molding, feeding, inspection, assembly, packaging, etc. without human intervention. Second use online intelligent inspection technology to distinguish qualified product and unqualified product, relieve the employees from inspection intensity. Third cooperate to realize artificial intelligent acquisition module which is convenient to data collecting, realize real-time monitoring the product data.

展台号：4.1T45

佛山市顺德区思创自动化机械有限公司

SICHUANG AUTOMATIC MACHINERY CO., LTD.

## Dr. Schenk EasyInspect

Dr. Schenk的EasyInspect是一个完整的程序控制解决方案。它可以检测和标记缺陷，并将资讯回馈到生产过程中，以优化过程，并将其传递给生产线上的后续生产步骤。这有助于制药业的药品包装厂及早发现基础材料中的杂质或针孔，以避免加工。

Dr. Schenk's EasyInspect is a complete process control solution for reliable detection of local and overall defects. It can feed defect information back into the production line to optimize the production process and pass it on to subsequent production steps further down the line. Medical packaging manufacturers in the pharmaceutical industry can detect e.g. impurities, pin holes and other defects in the base material early in the production process and avoid its further costly processing. This helps them produce high-quality final products while saving time and money.

**展台号：2.1H01**

DR. SCHENK GMBH INDUSTRIEMESSTECHNIK

## 瓶中袋技术可实现完全清空 Bag in the Bottle Technology for Complete Emptying

无菌吹瓶, 无尘室生产、GMP、摄像观察、生产数据、单层和共挤中的医疗和制药应用。

Sterile Blowing, Clean Room Production, GMP, camera observation, production data, medical and pharma application in monolayer and co-extrusion.



**展台号：2.1F46**

BEKUM  
MASCHINENFABRIKEN  
GMBH

## 一步法塑料注拉吹中空成型机 One Step Plastic Injection Stretch Blow Molding Machine



新品  
NEW

结合PET管胚注塑和PET瓶吹瓶于一台机器，可生产高透明医疗方案塑料瓶，如护理液瓶，血清瓶，止咳糖浆瓶等。

Combines PET preform injection and PET bottle blowing on one machine, produces high transparency medical solution bottles.

**展台号：8.1K50**

浙江科力塑料机械有限公司

ZHEJIANG KELI PLASTIC MACHINERY CO., LTD.

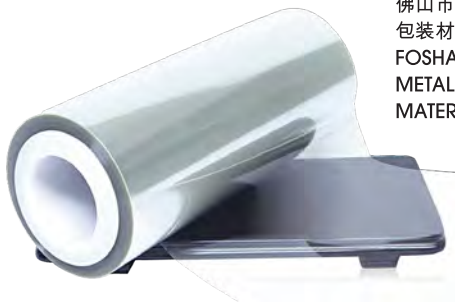
## 透明高阻隔PET氧化铝膜 Transparent High Barrier PET AlO<sub>x</sub> Film

1. 高透明度，透光率 $\geq 88\%$
2. 高阻隔环保包装材料，具有优异的阻氧、阻湿功能
3. 镀层附着高，大于 $3.0N/15mm$ ，具有良好印刷复合性能
4. 可微波加热，可经过金属探测器探测
5. 加工性能优越，适用范围广，可替代KPET、KBOPP、KBOPA、VMPET、SiO<sub>x</sub>、BOPA铝箔

1. High transparency, light transmittance  $\geq 88\%$
2. High barrier and environmental friendly packaging material with excellent oxygen barrier and moisture barrier performance
3. High Al adhesion, greater than  $3.0N/15mm$ , and it has good printing composite performance
4. Can be microwave heating, and detected by metal detectors
5. Excellent processing performance with wide application range, can replace KPET, KBOPP, KBOPA, VMPET, SiO<sub>x</sub>, BOPA, aluminum foil, EVOH and co-extruded film and other packaging materials
6. Reach FDA, EU, REACH, ROHS and GB 4806.7 and other regulatory requirement

**展台号：1.2F87**

佛山市彩龙镀膜  
包装材料有限公司  
FOSHAN CAILONG  
METALLIC PACKAGING  
MATERIAL CO., LTD.





## ATT 2316 MOD和ATT 2083 (ESR)

### 系列塑料模具钢

ATT 2316 MOD and ATT 2083 (ESR)  
Series Steel for Mould

ATT 2316 MOD, 经过改良的耐腐蚀塑料模具钢, 用于注塑模具、模具镶件、吹塑模具、挤压模具等, 常用于医疗及食品包装产业。ATT 2083 (ESR), 电渣重熔等级模具钢, 用于制作长期生产之PA (添加阻燃剂)、POM等腐蚀性塑料模具或PC、PMMA等高表面光洁度要求之中小型塑料模具。

ATT 2316 MOD, improved corrosion-resistant plastic mold steel. For use in injection molds, mold inserts, blow molds, extrusion dies and so on. Commonly used in medical and food packaging industry. ATT 2083 (ESR), electro slag remelted grade. Suitable for long production of corrosive plastics like POM and PA with flame retardant or applicable for small and medium-size plastic molds handling PC and PMMA requiring high surface finish.



展台号: 5.2G99

信昌精密模具(上海)有限公司  
ADVANCED TOOLING TEK  
(SHANGHAI) CO., LTD.

## 医用级PP原料

Medical Grade PP Material

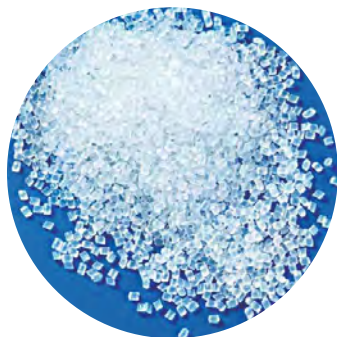
PP医用级瓶盖料有以下优势:

拉环开裂力低; 与接口热合强度高, 组装机走盖顺畅性好, 不溶性微粒析出低, 注塑成型性能好

PP medical grade bottle cap material has the following advantages: Optimum pull off force, excellent welding ability with bottle, excellent smoothness to combine by the machine, low separate out of insoluble particulate matter, excellent performance of injection mould.

展台号: 7.2D102

威海联桥新材料科技  
股份有限公司  
WEIHAI LIANQIAO  
NEW MATERIAL  
SCIENCE & TEC



## 医用级PP原料

Medical Grade PP Material



"WK-8811HS" 医用PET, 重金属、乙醛含量低; 透明度高; 耐热; 耐化学性能好; 紫外线阻隔性能好; 强度高; 韧性好; 无毒; 卫生性能安全可靠; 且加工性能优异。被广泛应用于医药包装、医疗器材及血液接触等领域, 食品级及医疗级基本上通用。

"WK-8811HS" medical PET, low content of heavy metals, acetaldehyde, high transparency; good heat resistance, chemical resistance, good UV barrier performance, high strength, good toughness, non-toxic, safe and reliable health performance, and excellent processing performance; It is widely used in pharmaceutical packaging, medical devices and blood contact and other fields, food grade and medical grade basically universal.

新品  
NEW

展台号: 7.2G112

万凯新材料股份有限公司  
WANKAI NEW MATERIALS CO., LTD.

## 食品药品包装色母

Color Masterbatch for Food and  
Drug Packaging

本系列产品为公司根据客户的材质及检测标准及使用环境, 选用优质颜料与助剂, 符合GB4806.7《食品安全国家标准食品接触用塑料材料及制品》, 使您的产品符合各种检测, 使用更安全更放心, 可广泛应用于食品, 药品包装塑料。



This series of products is selected by the company based on customer materials, testing standards, and usage environments, using high-quality pigments and additives that comply with GB4806.7 National Food Safety Standard for Plastic Materials and Products in Contact with Food. This ensures that your products meet various testing requirements, making them safer and more reliable to use. They can be widely used in food and pharmaceutical packaging plastics.

展台号: 2.2H52

沈阳彩鑫科技有限公司  
SHENYANG CAIXIN MASTERBATCH CO., LTD.

# 医用塑料新方案

## New Medical Plastics Solutions



橡塑技术的创新扩大了高分子材料和设备在医疗领域的应用，如抗菌材料、回收再生材料、医疗废弃物回收、实时检测、数字化认证等。Innovations in plastics and rubber technology enables wider use of polymer materials and equipment in the medical field, such as antibacterial materials, recycled materials, medical waste recycling, real-time inspection, digital authentication, etc.



NEO·E160II 电动射出成型机  
NEOE160II Electric IMM

**洁净：**能满足ISO 8级（10w级）无尘室生产环境要求  
**智能：**智能低压模保自学功能，灵敏度可达0.3mm以内；  
丝杆监测功能及断电自保护功能  
**节能：**节能环保，采用先进能量回收系统，比传统电动马达  
再节能8%-15%，能效等级达到Euromap9+  
**精密：**伺服24位元编码器控制，开合模精度0.01mm

**Clean:** can meet the ISO 8 (10w) clean room production environment requirements  
**Intelligent:** intelligent low-voltage mold self-learning function, sensitivity up to 0.3mm; Lead screw monitoring function and power off self-protection function  
**Energy saving:** Energy saving and environmental protection, using advanced energy recovery system, 8%-15% energy saving than traditional motors, energy efficiency level reached Euromap9+ servo 24 bit encoder control, opening and closing die accuracy 0.01mm

**展台号：5.1C52**  
泰瑞机器股份有限公司  
TEDERIC MACHINERY CO., LTD.

## 医疗级 ABS 材料及化学回收医疗级 ABS 材料

### Medical Grade ABS & Chemical Recycled Medical Grade ABS

中化国际 ELIX M203FC 和 M205FC 等医疗级 ABS 产品已在医疗领域应用多年。现在 ELIX 医疗级产品可提供高达 70% 基于 ISCC+ 认证的原料含量（化学回收+生物基），原料的添加采用了 ISCC+ 质量平衡认证。我们可以确保化学回收 ABS 与 100% 化石来源的医用 ABS 具有相同的化学成分和性能。

ELIX Polymers, a subsidiary of Sinochem International, provide such ELIX M203FC and M205FC medical grades ABS in medical applications such as drug delivery devices and medical device housings, and now are available with up to 70% ISCC+ certified raw materials content (chemical recycled + bio-based content), ISCC+ certified with a mass balance approach. We can guarantee that chemical recycled ABS have the same chemical composition and properties as fully fossil-derived medical ABS.



新品  
NEW

**展台号：7.2C26**  
中化国际（控股）股份有限公司  
SINOCHEN INTERNATIONAL  
CORPORATION

## 模组式干燥机 sDRY MM/MD

sDRY MM/MD 模组式干燥机采用模块化设计，每个模组拥有独立CPU，灵活性高，可随增随减，满足多组合的干燥需求并契合现场生产组装。搭载智能控制系统，实时监控数据等功能，确保整个干燥生产的高效率与稳定性。对高分子材料质量有严格要求的医疗生产行业是一个绝佳的选择。

sDRY MM/MD modular dryer adopts modular design, each module has an independent CPU, and it is highly flexible and can be added or subtracted at any time to meet the drying needs of multiple combinations and fit for on-site production and assembly. The intelligent control system is equipped with real-time data monitoring and other functions to ensure the high efficiency and stability of the whole drying production. It is an excellent choice for the medical production industry which has strict requirements on the quality of macromolecule materials.



展台号：4.1A32

摩丹智能制造(太仓)有限公司  
MOTAN TAICANG CO., LTD.

## HR | HRM 蜂巢转轮除湿机 HR | HRM Desiccant Wheel Dryers



透过采用蜂巢吸湿转轮技术，HR系列干燥机能确保最高能效以及中小型生产中应用的广泛性。目前已实现在苏州工厂完全生产。它的特点包括稳定的露点以及其洁净的干燥过程，超大吸收能力零粉尘排放连续再生过程和闭环冷却阶段。HR和HRM也很灵活，由于它们使用单一或多个料斗操作，可安装在主机旁。

By adopting the honeycomb desiccant rotor technology, the HR Series is able to ensure versatility for small and medium productions. HR and HRM dryers are completely produced at Suzhou Factory. The technology is characterized by constant dew point and clean process thanks to large absorbing capacity zero dust emission continuous regeneration process and close loop cooling phase. HR and HRM dryers are also flexible since they operate with single or multiple hoppers and can be installed be-side the process machine or on a mobile frame.

展台号：2.1F91

PIOVAN SPA

## 医疗级降解TPE材料 Medical Grade & Bio-degradable TPE Materials

GAINSHINE TPE BIO-GA487 降解物料是一种生物降解材料，其功能在于加速塑料产品在垃圾填埋场中的生物降解(厌氧降解)过程，将之转化为二氧化碳、甲烷和生物质。可用于医疗包装材料的添加。

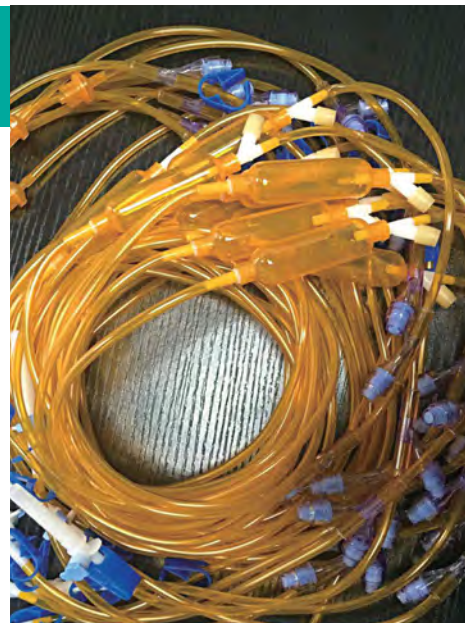
GAINSHINE TPE 具备医疗级品质，已通过10993认证，广泛应用于医疗管道、医疗连接器、医用设备、医用脚轮以及医用包装等领域。

GAINSHINE TPE BIO-GA487 biodegradable material is a biodegradable material that accelerates the biodegradation (anaerobic degradation) process of plastic products in landfills, converting them into carbon dioxide, methane, and biomass. It can be used as an additive in medical packaging materials.

GAINSHINE TPE has medical-grade quality and has passed 10993 certification. It is widely used in medical pipelines, medical connectors, medical equipment, medical casters, and medical packaging.

展台号：6.2D101

深圳市炫丽塑胶科技有限公司  
SHENZHEN SHINY TECHNOLOGY CO., LTD.



## 附DLC涂层的标准件 DLC Coated Quality Standard Components



新品  
NEW

HASCO 作为 DLC 涂层标准件的先驱，我们提供最全面的方案，包括精定位、滑块及导引零件、顶针、司筒、二级顶出、内置模板开闭器等。因其具有高耐磨性，能在无润滑剂的情况下运转，拥有最大的使用寿命，并延长了维护周期，因此非常适合在医疗行业使用。

As a pioneer in the standardisation of DLC-coated products, HASCO also offers the largest range of products. It covers not only locating, slide and guide units, but also moving elements such as ejectors, ejector sleeves, two-stage ejectors, latch locking units etc. The high abrasion resistance allows lubricant-free operation and thus longer maintenance intervals and maximum service life. So the components are ideal for use in medical industry.

### 展台号：5.2F57

哈斯高贸易(深圳)有限公司  
HASCO TRADING (SHENZHEN) CO., LTD.

## 医疗垃圾撕碎灭菌机 Hospital Portable Shredder Machine for Medical Waste Disposal

本机适用于塑料器皿、注射器、试管、ELIS板、培养皿、稀释杯、吸管、针头、尿杯、药瓶及医用针头、小玻璃瓶等各类废旧医用塑料的销毁，经久耐用，安全可靠，结构良好。它可以将医疗处理塑料销毁成小块，从而避免废物的重复使用和85%的运输量。

This machine is designed to destroy all kinds of used medical plastic disposal such as plastic utensils, syringes, test tubes, ELISA plate, dish, dilution cup, straw, tip, urine cup, pill bottle and medical used needle, small glass bottles and so on. It is durable and safety and with good structure. It can destroy the medical disposal plastic into small pieces, so that to avoid the reuse and the volume of transportation of waste by 85%.



新品  
NEW

### 展台号：NH11

张家港市万容机械  
有限公司  
WANROOE MACHINERY  
CO., LTD.

新品  
NEW



## 医疗垃圾回收生产线 Medical Waste Recycling Production Line

意菲特医疗垃圾回收生产线具有良好的密封性和耐腐蚀性，刀具采用DC53保证良好的耐磨性和高的抗冲击强度，可以满足医疗垃圾高混合度的破碎要求；合理的刀具排布和高通过率的筛网结构，保证破碎机出料不堵塞；整机配备摆臂推料设计及PLC自动控制系统，可达到较高产量。

QE granulators medical waste recycling production line has good sealing and corrosion resistance, tools using DC53 to ensure good wear resistance and high impact resistance, can meet the requirements of high mixing of medical waste crushing; reasonable tool layout and high pass rate screen structure, ensure that the crusher is not blocked; the whole machine is equipped with swing arm push design and PLC automatic control system, can achieve high output.

### 展台号：NH01

宁波意菲特环保设备有限公司  
QE GRANULATORS LIMITED



## 高精度医疗材料拉伸检测方案 High Precision Tensile Testing Program for Medical Materials

天氏欧森可以提供医疗相关的力学测试解决方案，如齿科、注射器、医用管材、避孕环、医用包装、输液袋等多种塑料材料的拉伸、压缩、弯曲、剥离测试。高精度的测试结果可追溯，具备3Q认证和CFR认证。并可依据客户定制化测试方案。

Tinius Olsen provide medical related mechanical testing solutions, such as dental, syringe, medical tube, contraceptive ring, medical packaging, infusion bag and other plastic materials. Tensile, compression, bending and stripping tests can be carried out. High precision test results can be traced, with 3Q certification and CFR certification. And can be customized according to the customer test scheme.

**展台号：5.2A31**

天氏欧森测试设备(上海)有限公司  
TINIUS OLSEN TESTING MACHINE SHANGHAI CO., LTD.

新品  
NEW

## 激光数字硅胶板 Silicone Sample Plate 2.0

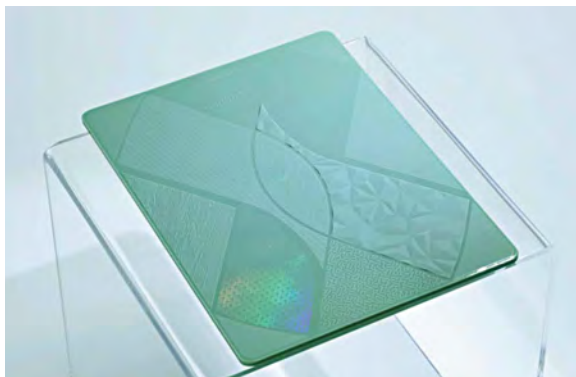
该技术即使与人体皮肤接触也不会留下痕迹。用户使用 APP 可以扫描硅胶样品板表面激光水印，获取信息。该技术能够解决自动组装和长期重复使用零件认证相关问题，以及作为为客户提供产品数字化信息的接口。

The sample plate has numerous innovative technologies integrated throughout the surface. A fascinating hologram attracts attention and remains free of marks even when in contact with human skin. The corners of the pattern plate have been given a special surface texture that reduces friction with other surfaces. A watermark opens the possibility of digitally connecting your end customer's user experience. The medical device industry will see significant benefits for technologies like these as the growth of molded silicone components increases. Enabling technologies which solve issues related to automated assembly and long-term repeated use part authentication and digitally connecting customers to products.

**展台号：2.1C51**

史达利硅胶制品(太仓)有限公司  
STARLIM SILICONE PRODUCTS  
(TAICANG) CO., LTD.

新品  
NEW



## AntibacMax® 无机抗菌剂 AntibacMax® Inorganic Antibacterial Agent



AntibacMax®无机金属离子抗菌剂以亚微米级玻璃或磷酸锆为载体，以银离子、锌离子、铜离子为安全长效的抗菌防霉活性成分。锌离子、铜离子是人体内存在且必要的元素，银离子对人体安全无害，它们透过干扰破坏细菌的细胞壁DNA或蛋白质，达到广谱抗菌效果，对含有蛋白质衣壳的各类病毒也有较好的抑制作用。

AntibacMax® inorganic metal ion antibacterial agent uses sub-micron glass or zirconium phosphate as the carrier and silver ion, zinc ion and copper ion as the safe long-term antibacterial and anti-virus active ingredient. Zinc ion and copper ion are essential elements existing in human body, while silver ion is safe and harmless to human body. By interfering with the cell walls, DNA, or proteins of bacteria, they achieve a broad-spectrum antibacterial effect and have a good inhibitory effect on various viruses containing protein capsid.

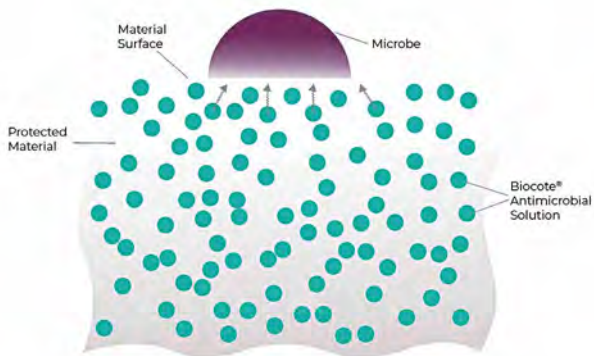
**展台号：6.2G82**

上海朗亿功能材料有限公司  
SHANGHAI LANGYI FUNCTION MATERIAL CO., LTD.

## BioCote 抗菌解决方案 BioCote Antimicrobial Solutions

BioCote®在制造过程中将抗菌添加剂无缝集成到医用塑料中，确保持久防护微生物。作为清洁制度的补充，它可以持续防止染色、异味和材料降解，保持医用塑料的清洁度并延长产品使用寿命。以银等特定抗菌剂为特色的添加剂可以配制为粉末、液体或母料颗粒，根据塑料类型、制造工艺和最终用途进行定制化。

BioCote® offers seamless integration of antimicrobial additives into medical plastics during manufacturing, ensuring durable protection against microbes. The 24/7 technology preserves material aesthetics and functionality throughout its lifespan. Complementing cleaning regimes, it prevents staining, odors, and material degradation, maintaining the cleanliness of medical plastics. Additives, featuring specific antimicrobial actives like silver ions, can be formulated as powder, liquid, or masterbatch pellets, tailored to plastic type, manufacturing process, and end-use. Elevate your medical plastics with BioCote®.



展台号：2.1F101  
BIO COTE LTD.

## 保鲜母粒 Z25 Antibacterial Masterbatch Z25



新品  
NEW

抗菌母粒 Z25 是一种具有抗菌功能的塑料添加剂，其主要成分是锌离子抗菌剂。这些抗菌剂在塑料制品中释放出锌离子，锌离子能够破坏微生物细胞膜的完整性，导致细胞内容物泄漏，从而达到抗菌的目的。1.有效抑制各种菌种的生长，包括大肠杆菌、金黄色葡萄球菌等，从而确保在使用过程中的清洁和卫生。

Antibacterial masterbatch Z25 is a plastic additive with antibacterial function, and its main component is zinc ion antibacterial agent. These antibacterial agents release zinc ions in plastic products, which can destroy the integrity of microbial cell membranes and lead to the leakage of cell contents, thus achieving the purpose of antibacterial. Effectively inhibit the growth of various bacteria, including Escherichia coli, Staphylococcus aureus, etc., so as to ensure cleanliness and hygiene in the use process.

展台号：2.2G20

山东北宏新材料科技有限公司  
SHANDONG BEIHONG  
NEW MATERIAL TECHNOLOGY CO., LTD.

## 波兹曼在线测厚仪 Boltzmann Online Thickness Gauge

本公司研发生产的在线测厚仪，采用自主研发的核心部件，让测量的精度更高、稳定性更好、响应速度更快。适用于多种薄膜（包括PC/PMMA、CPP/CPE、PI、PET、PVB薄膜、光学膜、铜铝箔在内的等薄膜）以及无纺布、浮法玻璃、输液袋、包装、塑料片、涂层测厚等应用场景。

The Online thickness gauge developed and produced by our company adopts independently developed core components, which enable higher measurement accuracy, better stability, and faster response speed. Suitable for various thin films (including PC/PMMA, CPP/CPE, PI, PET, PVB film, optical film, copper aluminum foil, etc.) as well as non-woven fabrics, float glass, infusion bags, packaging, plastic sheets, coating thickness measurement, and other application scenarios.

新品  
NEW



展台号：5.2D69

玻尔兹曼(广州)科技有限公司  
BOLTZMANN (GUANGZHOU) TECHNOLOGY CO., LTD.



申克MET失重秤  
Loss-In-Weight  
Feeder MET

申克MET失重秤用于体积法或失重法的连续式固体散状物料的给料。如粉剂、颗粒、片剂和纤维等。广泛应用于塑料、化工、食品、日化及制药等行业。特性：防腐、防酸的给料斗及延伸料斗；清洗或更换产品时，拆卸快速方便；测量及监控装置一体化设计；高精度高稳定性的给料，精度±0.5%。

The Loss-In-Weight Feeder MET is used for continuous volumetric and gravimetric feeding of bulk solids, e.g. powders, granules, chips, flakes and fibres. Typical applications come up in any industrial area, particularly in the plastics, chemical, food, detergent and pharmaceutical industries. Advantage: Feed and extension hoppers of corrosion and acid resistant steel; Quick and easy dismounting for cleaning and product change; Integrated measuring, control, and supervisory electronics; High feed accuracy and constancy, better than ±0.5 %.

**展台号：2.1H57**

SCHENCK PROCESS (TIANJIN)  
INDUSTRIAL TECHNOLOGY CO., LTD.

**SPARK AE系列全电注塑机**  
SPARK AE Series All-Electric Injection  
Moulding Machine

震雄SPARK AE系列全电注塑机，是震雄面向医疗、汽车配件、精密电子、高端玩具等行业领域的高端系列化产品，它集成了全电注塑机领域最先进的科研成果，部署了震雄精心研制的四大核心专利技术，匹配了业内顶尖的精密零部件，以及全电注塑机专用的电控系统。凭借在精密、稳定、高速、适用、节能、环保等方面的优越表现，被誉为全电注塑机集大成者。

The SPARK AE series is an all-electric product line ideal for the production of mass-volume, fast-cycle, high precision and demanding parts with the lowest power consumption level in the industry and superior long-term stability. It is particularly suitable for medical, automotive parts, E&E and toys production.

**展台号：5.1C32**

震雄集团  
CHEN HSONG

新品  
NEW



**YE全电动系列注塑机**  
YE All Electric Series Injection Molding Machines



集结当今先进驱动传动技术结合丰富的成型专业技术需求，融合简单易用的人性化设计理念，采用现代化数字加工工艺，具备了节能环保、高速高效、控制精密、运行可靠、操作便捷等优秀性能，最大限度的满足客户对机器稳定性、生产效率、环保性能的各种要求。

It integrated the most advanced drive and transmission technology. Combined with abundant specialized technical demands of molding, blended simple and convenient humanized design concept, adopted modernized digital processing technology, and equipped with the excellent properties such as energy saving, environmental protection, high speed, efficient, precise control, reliable operation and convenient operation, which greatly satisfied customers various demands for machine stability, production efficiency and environmental protection property.

**展台号：5.1G02**

宁波雨华塑料机械制造有限公司  
NINGBO YONGHUA PLASTIC MACHINERY  
MANUFACTURING CO., LTD.



展台号 Booth No.	公司名称 Company Name	现场展示 Onsite Display	植入物 Implant	血袋或输液袋 Blood bag/ Infusion bag	导管/管件 Catheter/ Tubing	连接器 Connector	医疗设备 Medical Device	手术器械 Surgical Tool	医用敷料 Dressing	远程医疗设备 Telemedicine Device	体外诊断 IVD	增材制造 Additive Manufacturing	医疗耗材 Medical Disposables	其他零部件 或组件 Other parts/ Components	医疗用品包装 Medical Device Packaging	药物包装 Pharmaceutical Packaging	医疗化验用品 Medical Lab Equipment	个人防护装备 Personal Protective Equipment (PPE)
1.1C84	广州盛广誉机械设备有限公司 GUANGZHOU S-GUANGYU MACHINERY & EQUIPMENT CO., LTD.	👁️			●							●	●					
1.1D69	华周工业股份有限公司 HCI CONVERTING EQUIPMENT CO., LTD.	👁️														●		
1.1J52	顺德实业股份有限公司 EVERPLAST MACHINERY CO., LTD.				●								●	●				
1.2B18	广东森德利环保新材料科技有限公司 SUNDLY ENVIRONMENTAL PROTECTION NEW MATERIAL CO., LTD.	👁️														●		
1.2D11	南通海琪玛科技股份有限公司 HAIRMA (NANTONG) TECHNOLOGY CO., LTD.	👁️		●									●		●	●		
1.2D123	潍坊山道化学有限公司 SUNDOW POLYMERS CO., LTD.	👁️				●							●	●	●			●
1.2F87	佛山市彩龙镀膜包装材料有限公司 FOSHAN CAILONG METALLIC PACKAGING MATERIAL CO., LTD.	👁️													●	●		
1.2H72	北京微构工场生物技术股份有限公司 BEIJING PHABUILDER BIOTECHNOLOGY CO., LTD.		●						●				●			●		
2.1C41	VTW GmbH												●					
2.1C51	史达利硅胶制品(太仓)有限公司 STARLIM SILICONE PRODUCTS (TAICANG) CO., LTD.	👁️	●			●	●	●	●					●	●	●		●
2.1F02	高特福 GOETTFERT	👁️																
2.1F23	耐驰特机械有限公司 NETSTAL-MASCHINEN AG												●		●	●	●	
2.1F46	BEKUM MASCHINENFABRIKEN GMBH			●											●	●		
2.1F91	PIOVAN SPA						●						●					
2.1F101	BIO COTE LTD				●		●	●				●					●	
2.1H01	DR. SCHENK GMBH INDUSTRIEMESSTECHNIK	👁️							●				●		●	●		●
2.1H47	斯伊利商贸(上海)有限公司 C. ILLIES TRADING (SHANGHAI) CO., LTD.	👁️	●				●							●				
2.1H57	SCHENCK PROCESS (TIANJIN) INDUSTRIAL TECHNOLOGY CO., LTD.											●	●		●	●		●
2.1H62	德国凯孚尔有限公司 KIEFEL GmbH	👁️			●		●						●	●			●	
2.2B32	东莞市圣安塑料机械有限公司 DONGGUAN SHENGAN PLASTIC MACHINERY CO., LTD.	👁️			●								●					
2.2G20	山东北宏新材料科技有限公司 SHANDONG BEIHONG NEW MATERIAL TECHNOLOGY CO., LTD.	👁️													●			
2.2G51	广东美胶物产有限公司 MEUJOY MATERIAL INC.	👁️																●
2.2H52	沈阳彩鑫科技有限公司 SHENYANG CAIXIN MASTERBATCH CO., LTD.	👁️					●								●	●		
4.1A32	摩丹智能制造(太仓)有限公司 MOTAN TAICANG CO., LTD.	👁️		●	●	●								●	●	●		
4.1T45	佛山市顺德区思创自动化机械有限公司 SICHUANG AUTOMATIC MACHINERY CO., LTD.	👁️					●								●			
5.1A24	杭州爱科机械有限公司 HANGZHOU ATECH MACHINERY CO., LTD.	👁️			●	●	●			●					●			
5.1C32	震雄集团 CHEN HSONG	👁️			●	●	●	●						●	●	●	●	●
5.1C42	恩格尔机械(上海)有限公司 ENGL MACHINERY (SHANGHAI) CO., LTD.	👁️											●					





展台号 Booth No.	公司名称 Company Name	现场展示 Onsite Display	植入物 Implant	血袋或输液袋 Blood bag/ Infusion bag	导管/管件 Catheter/ Tubing	连接器 Connector	医疗设备 Medical Device	手术器械 Surgical Tool	医用敷料 Dressing	远程医疗设备 Telemedicine Device	体外诊断 IVD	增材制造 Additive Manufacturing	医疗耗材 Medical Disposables	其他零部件 或组件 Other parts/ Components	医疗用品包装 Medical Device Packaging	药物包装 Pharmaceutical Packaging	医疗化验用品 Medical Lab Equipment	个人防护装备 Personal Protective Equipment (PPE)
5.1C52	泰瑞机器股份有限公司 TEDERIC MACHINERY CO., LTD.	👁️					●				●		●					●
5.1D12	百利机械有限公司 MULTITECH MACHINERY LTD.	👁️			●	●	●	●						●				
5.1D32	海天国际控股有限公司 HAITIAN INTERNATIONAL HOLDINGS LIMITED		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
5.1D71	宁波伟立机器人科技股份有限公司 NINGBO WELL LIH ROBOTS TECHNOLOGY CO., LTD.												●					
5.1D82	浙江首力智能装备有限公司 ZHEJIANG SONLY INTELLIGENT EQUIPMENT CO., LTD.	👁️					●						●	●	●	●		
5.1G02	宁波雨华塑料机械制造有限公司 NINGBO YONGHUA PLASTIC MACHINERY MANUFACTURING CO., LTD.	👁️					●						●		●	●		
5.1H01	复志科技 RAISE3D	👁️										●	●					
5.2A31	天氏欧森测试设备(上海)有限公司 TINIUS OLSEN TESTING MACHINE SHANGHAI CO., LTD.	👁️	●		●										●	●		
5.2C112	台州市特邦模具科技有限公司 TAIZHOU TEBON MOLD CO., LTD.	👁️											●				●	
5.2D69	玻尔兹曼(广州)科技有限公司 BOLTZMANN (GUANGZHOU) TECHNOLOGY CO., LTD.	👁️		●											●	●		
5.2F15	马斯特模具有限公司 MOLD-MASTERS CO., LTD.	👁️			●								●		●	●		●
5.2F48	柳道万和(苏州)热流道系统有限公司 YUDO (SUZHOU) HOT RUNNER SYSTEMS CO., LTD.	👁️		●		●								●				●
5.2F57	哈斯高贸易(深圳)有限公司 HASCO TRADING (SHENZHEN) CO., LTD.	👁️											●		●	●		
5.2F84	南峰工程有限公司 EVERFINEST ENGINEERING CO., LTD.	👁️	●			●	●						●	●	●	●	●	●
5.2F111	广东国珠模具科技有限公司 GUANGDONG GUOZHU MOLDS TECHNOLOGY CO., LTD.	👁️											●					
5.2G99	信昌精密模具(上海)有限公司 ADVANCED TOOLING TEK (SHANGHAI) CO., LTD.	👁️					●								●	●		
6.2A86	奥世达弹性体(深圳)有限公司 AUDIA ELASTOMERS / AUDIA SUNSTAR ELASTOMER (SHENZHEN) CO., LTD.	👁️			●			●			●		●	●				
6.2A109	丰炬工业有限公司 PHON TECH INDUSTRIAL COMPANY	👁️		●			●						●		●	●		●
6.2C02	台橡股份有限公司 TSRC CORPORATION	👁️											●		●	●		
6.2C11	路博润特种化工制造(上海)有限公司 LUBRIZOL SPECIALTY CHEMICALS MANUFACTURING (SHANGHAI) CO., LTD.	👁️	●	●	●	●	●		●				●	●	●	●		●
6.2C22	利安德巴赛尔聚烯烃(上海)有限公司 LYONDELLBASELL POLYOLEFIN (SHANGHAI) CO., LTD.	👁️		●	●	●	●	●	●	●	●		●	●	●	●	●	●
6.2C62	台湾聚合化学股份有限公司 USI CORPORATION	👁️		●	●	●	●				●		●	●	●	●	●	●
6.1C76	新乐华宝塑料机械有限公司 XINLE HUABAO PLASTIC MACHINERY CO., LTD.			●					●						●	●		
6.2C89	江苏顶塑实业有限公司 JIANGSU TOP POLYMER ENTERPRISE LTD.	👁️		●	●	●	●	●					●	●	●	●		●
6.2C92	南通普力马弹性体技术有限公司 NANTONG POLYMAX ELASTOMER TECHNOLOGY CO., LTD.	👁️			●								●	●	●			
6.2D85	海克斯波聚合材料(佛山)有限公司 HEXPOL COMPOUNDING (FOSHAN) CO., LTD.	👁️		●	●	●	●									●		
6.2D101	深圳市炫丽塑胶科技有限公司 SHENZHEN SHINY TECHNOLOGY CO., LTD.	👁️				●							●	●	●			
6.2G82	上海朗亿功能材料有限公司 SHANGHAI LANGYI FUNCTION MATERIAL CO., LTD.	👁️					●						●	●	●			●



展台号 Booth No.	公司名称 Company Name	现场展示 Onsite Display	植入物 Implant	血袋或输液袋 Blood bag/ Infusion bag	导管/管件 Catheter/ Tubing	连接器 Connector	医疗设备 Medical Device	手术器械 Surgical Tool	医用敷料 Dressing	远程医疗设备 Telemedicine Device	体外诊断 IVD	增材制造 Additive Manufacturing	医疗耗材 Medical Disposables	其他零部件 或组件 Other parts/ Components	医疗用品包装 Medical Device Packaging	药物包装 Pharmaceutical Packaging	医疗化验用品 Medical Lab Equipment	个人防护装备 Personal Protective Equipment (PPE)
6.2G107	阿乐密硅胶科技(中山)有限公司 ARUMI SILICONE TECHNOLOGY (ZHONGSHAN) CO., LTD.	👁️			●	●						●	●					
7.1B03	张家港市弗兰德机械有限公司 ZHANGJIAGANG FRIEND MACHINERY CO., LTD.	👁️			●							●						
7.2B01	威格斯高性能材料贸易(上海)有限公司 VICTREX HIGH-PERFORMANCE MATERIALS (SHANGHAI) CO., LTD.	👁️			●	●	●	●				●		●				
7.2B16	山东浩然特塑股份有限公司 SHANDONG HORAN SUPER ENGINEERING PLASTICS CO., LTD.	👁️				●	●	●										●
7.2B121	国化投资集团有限公司 NATIONAL CHEMISTRY INVESTMENT HOLDINGS LTD.		●		●		●	●					●	●	●	●		●
7.2C26	中化国际(控股)股份有限公司 SINOCEM INTERNATIONAL CORPORATION	👁️				●	●	●					●	●				
7.2C38	科思创(上海)投资有限公司 COVESTRO (SHANGHAI) INVESTMENT CO., LTD.	👁️					●	●		●	●			●				●
7.2C81	宝理工程塑料贸易(上海)有限公司 POLYPLASTICS (SHANGHAI) LTD.	👁️			●	●								●	●	●		
7.2D48	三养社 SAMYANG CORPORATION						●											
7.2D53	山东森荣新材料股份有限公司 SHANDONG SENRONG NEW MATERIALS CO., LTD.	👁️	●		●								●					
7.2D62	雷孚斯(上海)化工有限公司 LEHVOSS (SHANGHAI) CHEMICAL CO., LTD.	👁️					●											
7.2D102	威海联桥新材料科技股份有限公司 WEIHAI LIANGQIAO NEW MATERIAL SCIENCE & TEC	👁️		●	●								●		●	●		
7.2G112	万凯新材料股份有限公司 WANKAI NEW MATERIALS CO., LTD.	👁️					●		●				●		●			
7.2K42	凯柏胶宝® KRAIBURG TPE	👁️					●	●									●	
8.1C16	香港尼龙有限公司 / ASB HONG KONG NYLON COMPANY LIMITED / ASB	👁️		●									●		●	●	●	
8.1D28	青木固(佛山)塑料研发有限公司 AOKI TECHNICAL (FOSHAN) LABORATORY, INC.	👁️													●	●		
8.1K50	浙江科力塑料机械有限公司 ZHEJIANG KELI PLASTIC MACHINERY CO., LTD.	👁️													●	●	●	
8.2F31	埃万特集团 AVIENT CORPORATION	👁️											●				●	
8.2G25	三洋化成工业株式会社 SANYO CHEMICAL INDUSTRIES LTD.	👁️					●						●	●	●	●		
8.2G46	浙江传化华洋化工有限公司 ZHEJIANG TRANSFAR WHYON CHEMICAL CO., LTD.	👁️																●
8.2K23	深圳市志海实业股份有限公司 SHENZHEN AIMSEA INDUSTRIAL CO., LTD.	👁️		●	●	●					●		●		●	●	●	●
NH01	宁波意菲特环保设备有限公司 QE GRANULATORS LIMITED	👁️										●	●		●			
NH11	张家港市万容机械有限公司 WANROOE MACHINERY CO., LTD.				●				●				●			●		●

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## 医用塑料论坛

### Medical Plastics Conference



2024.4.24 | 10:00-13:00



普通话 / 英文 (即时传译) Putonghua / English (Simultaneous Interpretation)



国家会议中心 (上海) · 北厅 | National Convention Center (Shanghai), North Hall

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### 主题 TOPICS

万华化学医用材料解决方案，助力大健康产业发展  
Wanhua Chemical Medical Materials Solution Helps the Development of the Big Health Industry

Pebex 助力高值医疗耗材的效能提升  
Pebex Improves the Performance of High-value Medical Consumables

科思创超耐化聚碳酸酯系列  
Introducing New Portfolio of Hyper Chemical Resistant Polycarbonates

亲水性聚芳醚砜材料及其应用  
Hydrophilic Polyarylene Ether Sulfone Materials and their Applications

医用抗菌敷料制备及临床应用  
Preparation and Clinical Application of Medical Antibacterial Dressings

新型药物传输装置设计  
Novel Drug Delivery Device Design

高分子材料在医疗产业的个案分享  
Case Sharing of Polymer Materials in the Medical Industry

### 嘉宾 SPEAKERS

万华化学集团股份有限公司  
Wanhua Chemical Group Co., Ltd.

阿科玛 (中国) 投资有限公司  
Arkema (China) Investment Co., Ltd.

科思创 (上海) 投资有限公司  
Covestro (Shanghai) Investment Co., Ltd.

安徽摩纳珀里科技有限公司  
Monapoli Technology Co., Ltd.

北京化工大学  
Beijing University of Chemical Technology

待定  
To be confirmed

待定  
To be confirmed

## 医用塑料商贸配对

### Medical Plastics Business Matching

合作方 Cooperating Partner



2024.4.24 | 13:00 - 17:00



会议室 Meeting Room 501



普通话 Putonghua



2024.4.25 | 09:30 - 12:00



会议室 Meeting Rm 501



普通话 Putonghua

主题 TOPICS

- 医疗器械创新导论 Introduction to Medical Device Innovation
- 新实施的中国医疗器械监督管理条例解读 Interpretation of the New Regulations on the Supervision and Administration of Medical Devices
- 体系创新及关键技术的临床应用之案例解析 Case Study on System Innovation and Clinical Application of Key Technologies
- 医疗器械研究设计开发、质量管理与风险控制 Research, Design, Development, Quality Management, and Risk Control of Medical Devices
- 创新医疗器械知识产权保护策略 Strategies for Protecting Intellectual Property in Innovative Medical Devices
- 医疗器械生产过程中包装相关环节的质量控制 Quality Control of Packaging Related Process throughout the Production of Medical Devices



2024.4.25 | 13:00 - 17:00



会议室 Meeting Rm 601



普通话 Putonghua

主题 TOPICS

嘉宾 SPEAKERS

- 理事长致词  
Chairman's Speech  
中国医疗器械行业协会医疗器械包装专业委员会  
The Medical Device Packaging Professional Committee of the China Association for Medical Devices Industry
- 二类医疗器械注册包装相关审查关注点  
Evaluation Focus on Category II Medical Device Registration Packaging  
上海市医疗器械化妆品审评核查中心  
Shanghai Medical Devices and Cosmetics Evaluation and Verification Center
- 全球无菌医疗器材包装法规与标准更新  
Global Regulatory Updates and Standards for Sterile Medical Device Packaging  
杜邦(中国)研发管理有限公司  
DuPont (China) Research and Development Management Co., Ltd.
- MDR下无菌医疗器材包装需求及验证应对  
Requirements and Validation for Sterile Medical Device Packaging Under MDR  
上海微创医疗器械(集团)有限公司  
Shanghai MicroPort Medical (Group) Co., Ltd.
- 环氧乙烷灭菌设计新思路以应对低残留要求的挑战  
Innovative Design Approaches Using Ethylene Oxide Sterilization to Meet Low Residue Requirements  
施洁医疗技术(上海)有限公司  
Sterigenics Medical Technology (Shanghai) Co., Ltd.
- 医疗器械包装的生物相容性评估及化学表征  
Biocompatibility Evaluation and Chemical Characterization of Medical Device Packaging  
通标标准技术服务(上海)有限公司  
TÜV SÜD Standard Technical Services (Shanghai) Co., Ltd.
- 医疗器械包装材料的适应性选择  
Material Selection Considerations for Medical Device Packaging  
上海建中医疗器械包装股份有限公司  
Shanghai Jianzhong Medical Packaging Co., Ltd.



2024.4.26 | 10:00 - 12:00



会议室 Meeting Rm 602



普通话 Putonghua

主题 TOPICS

嘉宾 SPEAKERS

- 立足中国，放眼全球 - 中国医疗器械出海平台建设  
Based in China, Eyeing the Global Market - Establishing China's Medical Device Export Platform  
中国医疗器械行业协会IVD分会  
IVD Branch of China Association for Medical Device Industry
- 中国医疗器械行业ESG分析报告  
ESG Analysis Report on China's Medical Device Industry  
中国医疗器械行业协会ESG特别工作组  
ESG Analysis Report on China's Medical Device Industry
- 携手英国，实现医疗产品全球成长  
Collaborating with the UK to Realize Global Growth in Medical Products  
英国商业贸易部  
UK Department of Commerce and Trade
- 爱尔兰，全球医疗技术的枢纽  
Ireland: A Global Hub for Medical Technology  
爱尔兰投资发展局  
Irish Development Authority

# 1



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