

Shaping circular economy for plastics



Utilizing plastic waste through effective recycling is key to building a circular economy.

Visitor Count

Day 1	Day 2	Accumulative
44,715	61,699	106,414
		Overseas
		24.35%

Plastics are gaining wider applications in different sectors, but only 9% of the world's plastics ever produced have been collected for recycling. Circular economy, as a megatrend of the plastics industry, is therefore under the spotlight at CHINAPLAS 2019.

Bio-based the buzzword of the plastics industry

More innovative materials have been developed with improved properties and new functionalities, driving the positive trend for the demand and application of bioplastics. In the "Bioplastics Zone" of CHINAPLAS 2019, a wide spectrum of latest biodegradable and bio-based plastics is offered to the visitors.

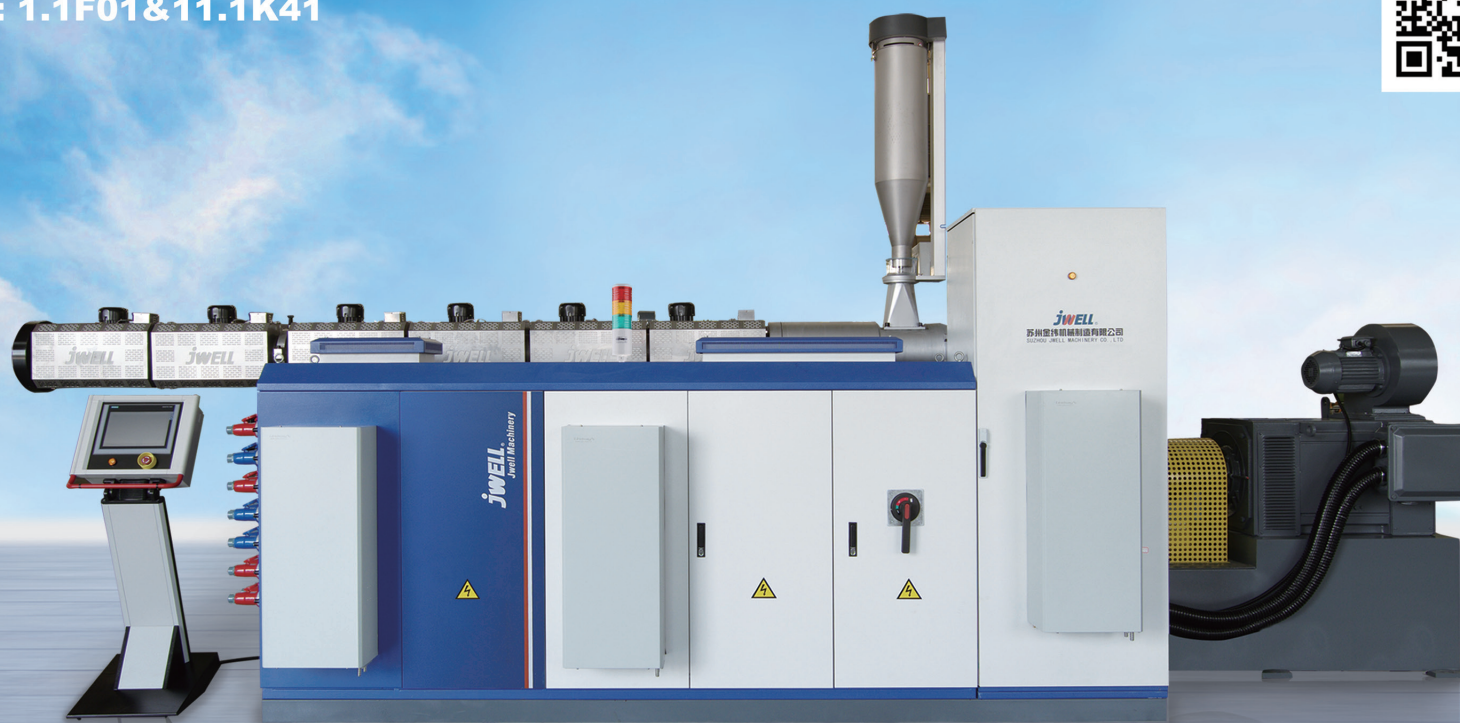
NatureWorks LLC, along with its partners, showcases how Ingeo can be tailored to enhance performance attributes critical to different application performances. For example, a new generation of tea and coffee bags made of Ingeo PLA-based biopolymer is displayed at its booth, demonstrating how packaging can be designed to enhance beverage taste and aroma while offering the compostability.

Meanwhile, a groundbreaking refrigerator liner also shows how Ingeo's barrier properties can be leveraged to increase the energy efficiency of refrigerators by 7-15%.

Following the megatrend of circular economy, China has been adopting sustainable economic and social development strategies. In view of this, more Chinese material suppliers are focusing on developing recyclable, biodegradable and bio-based materials.

Hubei Guanghe Biotechnology Co., Ltd. is a major player in an environmental protection campaign of Alibaba Group. It displays a fully biodegradable material,

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Blow Molding
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Compound & Recycle
塑料改性&回收

GH7-1-360, and a bio-based material with a biogenic carbon content of almost 20%, JH330-D16A, which were developed in collaboration with the Changchun Institute of Applied Chemistry, Chinese Academy of Sciences.

The materials, designed for courier bags and bubble courier bags, have passed the European DIN CERTCO's certification for fully biodegradable and bio-based products, according to the Chinese exhibitor.

The bio-based and compostable material of another Chinese enterprise, Suzhou Hanfeng New Material Co., Ltd., has changed the situation of traditional plastics being difficult to degrade and combustion producing harmful gases.

As introduced, with the technology for blending PLA and PBAT, customers' various requirements for the physical properties of products and cost control can be satisfied, and the softness and environmental friendliness of products will be enhanced. The material can be used to manufacture green courier bags, disposable lunch boxes, bowls, cups, supermarket shopping bags, bags on a roll, flat-top bags and so on.

In addition, buyers can also source high-performance and recyclable materials, such as rPET, LDPE, and PP, for a wide range of applications in the "Recycled Plastics Zone". The zone gathers leading exhibitors from China, Japan, Egypt, Latvia, etc. and makes its debut at CHINAPLAS this year.

Among the exhibitors on stage in the zone, KINGFA is a world-leading new material enterprise from China. The company has already produced more than 1 million tons of environmentally-friendly high-performance recycled plastics, and has established long-term partnerships with renowned brands in China and abroad. Its high-performance recycled plastics business unit owns the brand RecoOne.

Nobel recycling technologies on stage

As the plastics industry strives to optimize the processes for closing the recycling loop, the "Recycling Technology Zone" of CHINAPLAS is upgraded with a stronger lineup this year. Solutions for the whole recycling production chain are introduced, including sorting, granulating, washing, drying and pelletizing. Renowned exhibitors include TORMA, Buhler Sortex, Sesotec, Pierret, etc. are on show.

The new INNOSORT FLAKE sorter, equipped with TOMRA's field proven NIR technology and the patented FLYING BEAM technology, is capable of detect material and color at the same time for an optimal sorting performance.

In PET recycling plants, the new sorter can help to remove impurities such as PVC, PP, PE, PA and POM from PET flakes, and ensure high purity of end product and high processing capacity.

Traditionally, the biggest challenge in PET flake sorting is to remove impurities smaller than 4mm, but with the high resolution and improved sorting algorithm, INNOSORT FLAKE can address the challenge effectively, and help to deliver PET flakes with improved quality for more diversified utilization, upgrading business for plastics recycling industry.

The SORTEX range of optical sorters from Buhler Sortex focuses on precision sorting, maximizing capacity, purity and yield, and delivering a consistent performance. It meets individual requirements and is suitable for small, medium and large-scale processing.

The optical sorters are able to sort a variety of plastics, including PET flakes, HDPE flakes, uPVC window regrind, WEEE/ELV residue, PVB, PP, ABS, PS and plastic pellets, as well as color grouping to further maximize product value.

Sesotec Shanghai Co. Ltd is one of the leading manufacturers of inspection, separation and sorting systems. When compared with conventional belt sorting systems, its VARISORT COMPACT is characterized by compact design and universal use in the recycling sector.

The material infeed is effective by using specially adapted vibratory feeders and chutes to guarantee homogeneous material distribution over the full width of a fast running conveyor belt. The combination of an inclined chute and a high speed conveyor eliminates problems due to the weight, shape and abrasive characteristics of the materials.

A wealth of cutting-edge solutions for the packaging sector

The packaging sector is facing increasingly higher user requirements and strong call for sustainability. CHINAPLAS 2019 has a large display of innovative packaging solutions



A contract signing ceremony was held at CHINAPLAS 2019 yesterday between Guolong Recyclable Resources Group and five renowned European suppliers of plastics recycling technology, including Sorema from Italy, Erema and SML from Austria, as well as Kiefel and Tomra from Germany. The total value of the equipment purchased exceeded 30 million euros. Chairman of the Guolong Group, Guo Jiawan, said he is optimistic about the future of his PET recycling projects as society is increasingly embracing a circular economy.

featuring live machine demonstrations as well as exhibits of innovative materials and green technologies.

For example, ILLIG's new IC-RDM 73K thermoformer produces drinking cups using a 32-up mold, at a speed of 50 cycles per minute. The forming area of this new machine is enlarged by 23%. Subject to applications, all improvements together contribute to an up to 25% increased production.

Compared to traditional pneumatic/hydraulic extrusion blow molding machines, the EB70UE full electric extrusion blow molding machine to be showcased by Powerjet Plastic Machinery Co., Ltd. has a rotary speed that is one-third higher and can save about 70% energy. The solution is mainly applicable to the manufacturing of packaging and containers for food and pharmaceutical products.

At the fairgrounds, SACMI presents its continuous compression molding (CCM) technology. Also on show is the innovative SACMI compression blow forming (CBF) container manufacturing solution plus a wide range of systems for total quality control at every stage along the line.

SWITEK Technology Automation Co., Ltd. specializes in the design and automation application of robots for injection molding automation. The automation solution on stage at the show is an IML spoon caps automation system, which includes the IML unit, CCD inspection unit, spoon assembly unit and auto-sorting and carton packing unit. The system helps IML spoon caps producers to downsizing for efficiency.

Innovative material and chemical solutions also boost the developments of the packaging sector, satisfying the higher requirements from consumers.

Milliken's Millad NX 8000 PP clarifying agent is one of these solutions. The agent allows products with higher thickness to be as crystal clear as glass or amorphous polymer materials. It can replace the expensive transparent materials with limited functionalities and improve the aesthetics of current polypropylene materials.

The highlight of SK Global Chemical's showcase is the PRIMACOR. It is random ethylene acrylic acid (EAA) copolymer produced by free radical copolymerization of ethylene and acrylic acid. It offers excellent adhesion to packaging substrates like foil, paper, polyolefins, and exceptional resistance to most oils, greases, acids, and salts.

Current changes in the packaging industry favor the increased use of thermoplastic elastomers (TPE). Epsal TPE products of HEXPOL TPE are custom-made liner sealing compounds for the food and beverage industry. They are PVC free and conform to FDA and EU regulations.



Green product: TF-BOPE enabled fully recycled polyethylene (PE) Pillow Pouch.

Advanced film technologies for higher efficiency and quality

Plastic films are gaining more popularity in various end user industries. To meet the increasing market demand coupled with higher application requirements, film producers are looking for advanced processing technologies and equipment.

In the area of film manufacturing, Windmöller & Hölscher (W&H) showcases its machine range for applications with increasing requirements such as flexible packaging, breathable diaper film, and more.

The focus of the German-based company is also on the manufacture of surface protection films, FFS films and barrier films with up to 11 layers for blown film applications. Its cast film line FILMEX has application ranges from nanolayer stretch films with up to 55 layers to barrier, CPE and CPP applications.

GOEBEL IMS presents its comprehensive portfolio of high-performance slitter rewinders for film processing and converting at its booth. The machines cover the complete range of web widths from 1,800 to 12,000 mm.

One of the highlights is the primary slitter rewinder INTERSLIT BSF, which is specifically designed to process hypersensitive materials such as battery separator film based on wet-processed BOPE.

The especially compact station rewinder concept with a short web path from unwind to rewind keeps the web on track and allows lowest web tension ranges. To achieve maximum efficiency, it can convert web widths of up to 6,000 mm while unwind and rewind diameter as well as speed are adjusted according to customers' needs.

As for materials, Borouge's flagship product Anteo offers exceptional performance for demanding film applications. With its outstanding sealing performance, Anteo greatly improves the productivity of packaging lines and reduces the proportion of packaging leakage and breakage.

Anteo's versatility and a broad range of solutions provide greater flexibility in package design and can be used widely in various applications in food and beverages, personal care and hygiene, according to Borouge.

Plastics the material of choice for E&E applications

Many exhibitors at CHINAPLAS 2019 aim at introducing their state-of-the-art materials and equipment for the electrical & electronics (E&E) applications.

Plastics are expected to play a crucial role in the era for 5G, and therefore Seyang Polymer showcases SEYANG LCP, a material for 5G communication components. The material achieves low/high dielectric property ratings, LDS/MID grades for 5G antennas,

(Continues on P6)

Recycling Made Simple

Hall 7.1 D21
Hall 10.1 J17



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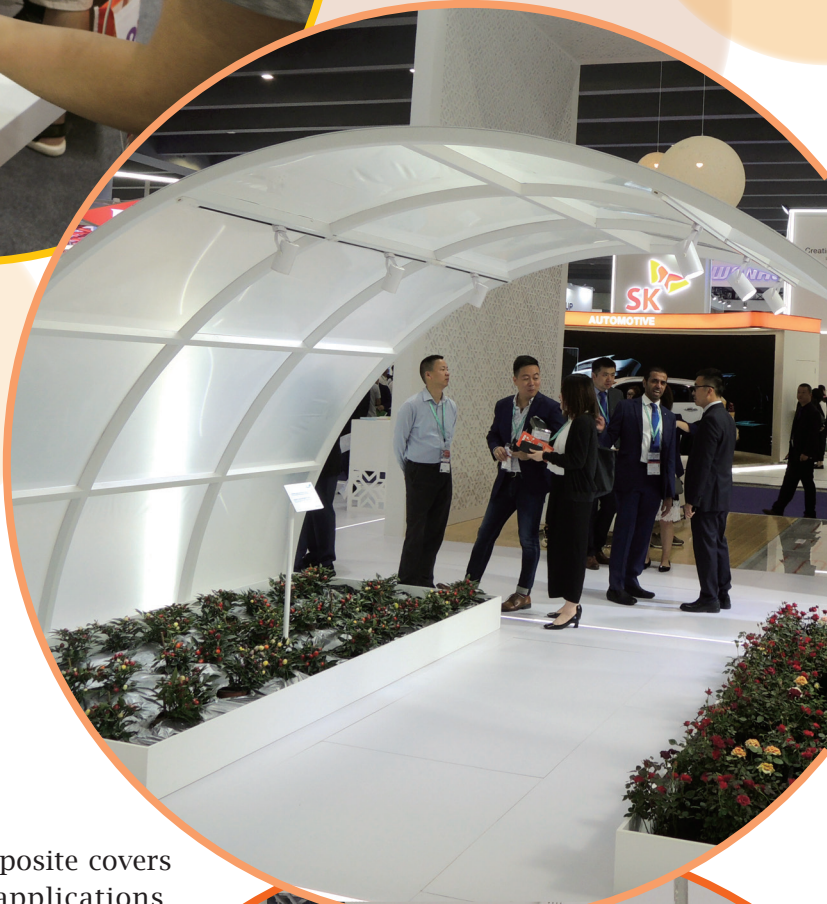


Remember to see the CMF Inspiration Walls to get inspired for product design.



Breathable, water resistant and recyclable mattress made with 3D loop cushioning technology brings comfort and convenience to people's daily life.

The flowerbeds at Borouge's booth show the unique applications of greenhouse film.



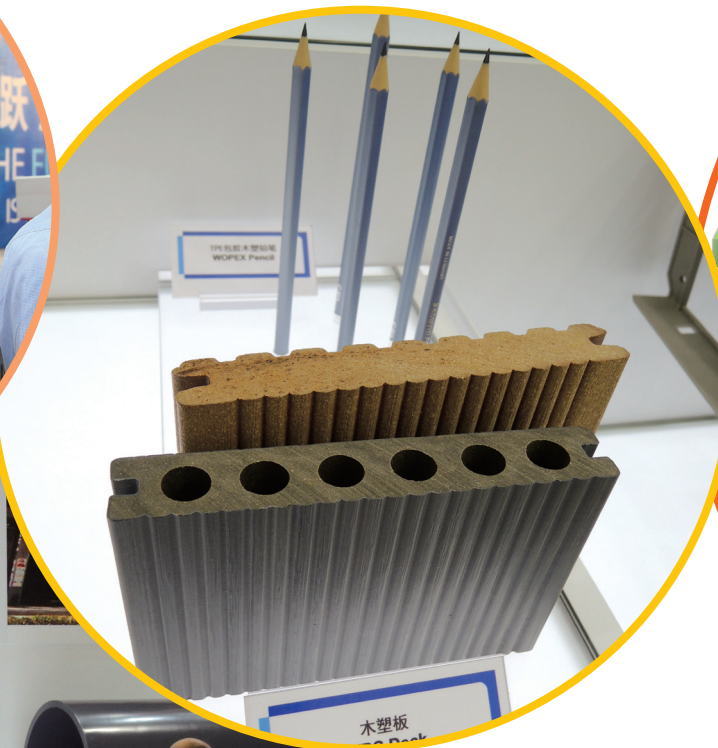
Highlights of the fair at a glance

Extraordinary flowerbeds, automated machinery, new eco-friendly materials...
A new world of plastics is in the making!

A personal souvenir from show organizer - a can of soft drink with her name on.



Wood plastic composite covers a wide array of applications, ranging from stationary to construction material.



Automation makes production simpler and is a must-have technology at shows.



International exhibitors and visitors exchange views with each other.

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Sekaran Murugaiah, Vice President Business Development, Asia Pacific, Davis-Standard, LLC.

"The food packaging segment is looking for sustainable solutions, innovative products and functionalities, offering new growth opportunities."

In spite of global economic uncertainties, especially in financial markets around the world and economic slowdown in major economies including China, the demand for plastic is expected to continue to grow, albeit at a slower rate. But according to Davis-Standard, a global leader in the design, development and distribution of extrusion and converting technology, one segment is enjoying continuous and exciting growth prospects: food packaging.

"Currently, single-use plastics are facing challenges in many countries and the industry needs to effectively respond to this demand. In particular, the food packaging segment is looking for sustainable solutions, innovative products and functionalities, offering new growth opportunities," said Sekaran Murugaiah, Vice President Business Development, Asia Pacific, Davis-Standard, LLC.

In response to market needs, he highlighted the company's recent acquisitions of Brampton Engineering and Thermoforming Systems LLC (TSL). TSL is the market leader in thermoforming equipment for high-volume packaging applications, which fits nicely with Davis-Standard's continued growth in the packaging sector.

Meanwhile, its stretch film line equipped with a DS S3 winder offers a compact machine

arrangement, ease of servicing, excellent profile control, consistent roll quality and an intuitive control package.

Davis-Standard is showcasing equipment primarily geared toward medical, film and packaging markets, with the most eye-catching HP 100 extruder, providing unparalleled performance and durability for processing versatility, long-term market value and an attractive return on investment.

Smart factories in high demand

Talking about the latest trends, he noted that technology trends are now focusing on high-efficiency, high-output, and low-waste processes. "In response to demands for smart production, we are also making significant advances in the area of the smart factory of which the Activ-Check is an important step," he explained.

The new DS Activ-Check system for continuous extruder monitoring enables processors to take advantage of real-time preventative maintenance by providing early notifications of potential extruder failures.

He added, "I would say that continued progress in energy and operational efficiency as well as the production of sustainable products are top priorities."

An example is the single station extrusion and laminating line is dsX flex-pack™ 300S. Designed specifically for the Asian flexible packaging market, it is a collaboration among Davis-Standard's teams in the U.S., Germany and China, addressing the pricing, machine footprint, speed and output, and shorter runs demanded by converters.



HPE-100H extruder provides notifications of potential extruder failures.

Customer feedback drives progress

As for product development, he regards customers' opinions as the driving force. "Customer and market-driven feedback is paramount to us and the most significant factor in our development efforts," he stressed.

For this reason, he is looking forward to sharing the latest Davis-Standard technology and developments with its customers at CHINAPLAS. "By this we can gain valuable insight into the markets, discuss customer challenges and how we can provide solutions. The face-to-face interaction offered by venues such as CHINAPLAS is essential to our ability to serve customers," he concluded.

Booth: 9.2J41

(Continues from P2)

and excellent extrusion grades for liquid crystal polymer (LCP) films.

At the same time, Shanghai Afaith Trading Co., Ltd. also introduces a polycarbonate-based material with a high dielectric constant, which can be widely used in small antennas and 5G communication applications.

Japan's Teijin Ltd. has developed a thermoplastic carbon fiber prepreg by combining their carbon fiber with thermoplastic resins like PC, PP and polyethersulfone (PES). It offers a good appearance at lower overall cost, and can be used in E&E applications.

Compared to traditional metal and thermoplastic carbon fiber prepreps, the product is flame retardant, impact resistant, easy to shape, storable at room temperature, and suitable for large-scale mass production with short production cycle times.

Arburg showcases a complex turnkey system, an innovative and automated technology for manufacturing hydraulic, two-component wristwatches. Its Allrounder 570 S injection press produces bicolor LSR wrist straps, the MULTILIFT V robotic system removes the straps and set them down into a cooling station, where they are fitted with the housing and a clasp. The entire process takes only 70 seconds.

Other activities not to be missed

CHINAPLAS 2019 is moving into the third day. In addition to the ongoing "Design Forum", "Medical Plastics Forum" and "Tech Talk", the organizer will hold various Application Industries Technology Seminars today, including the "Innovative Development of Packaging materials under the New Consumption

Trend", "New Building Materials Technology Seminar 2019", "Automobile and Rail Transit Lightweight Materials and Application Technology Seminar" and more.

Topics related to digital communications in the plastic industry, lithium battery technology will be covered in other seminars to be held tomorrow.

Last but not least, visitors can have the chance to receive amazing gifts on the last day of the show (May 24), such as air purifier, Bluetooth sports bracelet, power bank, and stylish USB. Redemptions will be limited and first-come-first-served while stocks last (Hall 2.2 S69; Hall 9.3 S59).



Audiences at yesterday's Design Forum listened attentively to the speaker on the topic of sustainable product design.



Design x Innovation – Design Forum

Time: 09:45 - 12:15

Venue: Booth 11.3R21 in Zone B

Theme: CMF Design

Medical Plastics Connect – Medical Plastics Forum (The 2nd Biomedical 3D Printing Development Forum)

Time: 09:30 - 12:00

Venue: Meeting Room 8 South, Level B, Zone B

Tech Talk

Time: 10:00 - 13:30

Venue: Outside Hall 4.1 on Pearl Promenade, Zone A

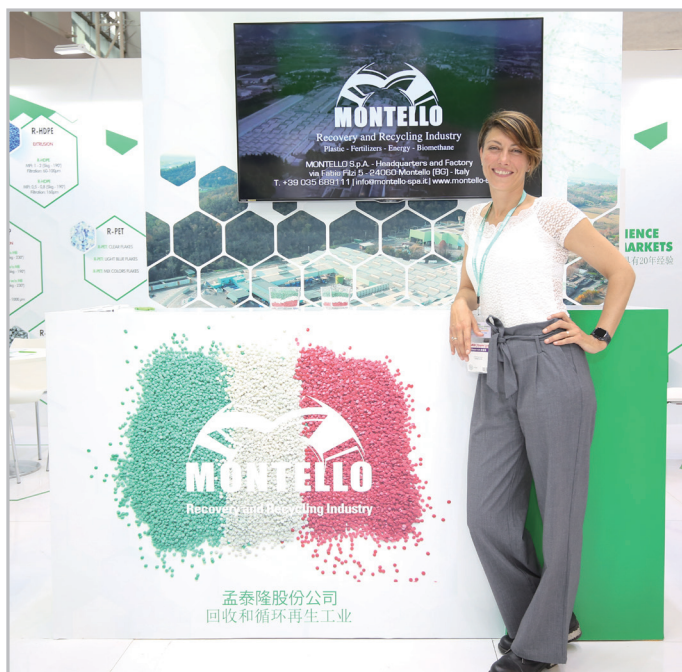
Topics: In-mould Labeling, Precision Extrusion, Packaging Upgrade Solutions

Time: 13:00 - 16:00

Venue: Booth 11.3R21 in Zone B

Topics: Bioplastics, Composites & High Performance Materials, Antibacterial Solutions

New mindset of going green is needed for recycling



Sancinelli Francesca, Commercial Sales Director, Montello

"We believe that a step forward can be achieved when people with no compromise will choose an environmentally friendly packaging rather than a flashy one."

Sales Director Sancinelli Francesca said: "This year started well and forecasts are even better, thanks to 'Circular Economy' policies implemented by governments worldwide.

Montello SPA, an Italian leader in the recovery and recycling of plastic and organic waste, recycles over 200,000 tons of post-consumer plastic packaging per year.

This massive figure reflects a booming plastics recycling market. Indeed, to meet increasing demands and to comply with new quality standards, the company has been investing in the most innovative machinery over the previous years.

Speaking about the reasons for the market growth, Montello's Commercial

These laws will dramatically increase the use of PCR (post consumer recycled) materials in the manufacturing of products."

She is proud that majority of the company's best clients is improving the percentage of recycled materials in their products. "It's all about knowing how to set up machinery and adapt them to secondary raw materials. A necessary step for the future of manufacturing has to be done and we are able to support our customers along this pathway," she explained.

But more needs to be done. "We believe that a step forward can be achieved when people with no compromise will choose an environmentally friendly packaging rather than a flashy one. This needs a change of mind-set and culture that might start from schools and the education system," she stressed.

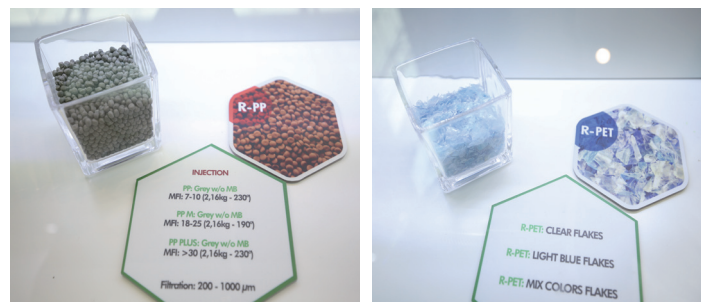
Newest products on display

At CHINAPLAS, Montello is presenting for the first time its newest polyolefin mix creation: GS8 (20% PP and 80% PE), the best compromise between quality and price. It is also showcasing its complete products range: R-LDPE \ R-HDPE \ R-PP \ R-PEPP polyolefin mix

granules and R-PET flakes. These products will benefit several markets, from building to gardening and from automotive to blow molding.

Revealing the company's achievements, she said: "With over 20 years' experience in the treatment of PCR material, we know how to handle common problems such as impurities. In addition, we recycle more than 225,000 tons per year, which is equivalent to the consumption for 10 million people, so we are able to guarantee a steady material stream in terms of both quality and quantity."

Booth: 10.3B09



Montello's eco-friendly polyolefin mix granules and flakes.

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**Zhong Shan Gomec
Company Limited
General Manager
Ng Hsien Kwang**

I come here for getting latest product and technology information on materials like TPU, as well as extrusion lines. I am also interested in knowing more about European plastics technology. CHINAPLAS is my choice for these purposes.



**DEREN Electronics
Production Manager
Liu Zhen**

This is my first time to visit CHINAPLAS. The show is so big, with so many exhibitors and visitors, and is well-organized. I am particularly interested in injection molding machines, and I think I have come to the right place!

**ChemTrade Roth GmbH
Managing Director
Petra Hilbert (Germany)**

CHINAPLAS gathers exhibitors from all around the globe. Although our company has some material suppliers from China already, I can find more at the show. Meanwhile, I can also meet many European suppliers here.



**Foshan Xin Zhi Technology
Company Limited
Technology Consultant
Wang Pei Jie**

I come to learn about the latest market and technology trends of molds. Our company also provides technology consultancy and training. At the show, we can exchange information with our industry peers, and get updated on the market outlook.



At the right place!

CHINAPLAS is the right platform for professionals in the plastics and rubber industries around the world.

As one of the world's largest plastics and rubber exhibitions, CHINAPLAS is a platform for the world's latest and innovative materials, machinery and technology, where business negotiations and exchange of market information take place between visitors and exhibitors from home and abroad.



**Almunif Pipes
Deputy General Manager
Sultan Munir Almunif
(Kingdom of Saudi Arabia)**

Our company mainly produces pipes and packaging. I am looking for new materials and machines to upgrade our production. For machines, my targets are new extrusion, injection molding and thermoforming machines.



**Best Technology
(Shenzhen) Inc.
Quality Control Manager
Huang Xiao Qing**

I visited the CHINAPLAS held two years ago in Guangzhou. I saw many latest plastics solutions and innovative technologies, and had a very fruitful visit. Therefore, I come here again this year, and will definitely do so in the future.

**HuBei Minzu University
Professor
Li Shi Dong**

As a professor, I want to find partnership opportunities for my university. The Chinese government is promoting closer cooperation between academic institutes and commercial companies. I believe CHINAPLAS is the right platform for this.



**COLORPLUS MASTERBATCH
Manufacturing Co. Ltd.
Managing Director
Md. Rezaul Hakim
(Bangladesh)**

I have visited CHINAPLAS many times. The show is a very good place for sourcing new materials, and that is the reason why I keep on visiting. For this year, I will also check out some extrusion machines.



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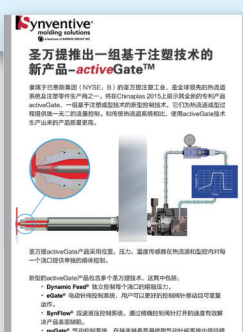


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Milliken: The East is prevailing over the West in plastics innovation

While Asia Pacific goes on to be a region of investment and focus for the plastics industry, it is gradually becoming a more and more significant consumption market.

It is in this context that Milliken continues to entrench itself in Asia Pacific by exploring new ways of thinking, staying close to the market, developing new application scenarios and offering new complete solutions.

Offering one-stop solutions

The company has worked out some new solutions which are shared with and explored by the entire industry during CHINAPLAS 2019.

Vincent Wang, Asia Marketing & Communication Leader at Milliken Chemical, revealed that Milliken would display a series of innovative solutions that will create value for resin producers, product manufacturers, brands, as well as end-consumer channels and consumers.

"Now the phenomenon of the East influencing the West is seen more and more often."



The showcase of products made of UltraClear PP using Millad NX8000 additive.

For instance, traditional meal boxes with an OPS cover and a PP tray are not convenient to use, cannot be heated directly, and are hardly recyclable due to the use of different materials. To fully tackle these challenges, Milliken has on offer a complete one-stop solution which has accomplished breakthroughs in multiple countries and benefited the entire industrial chain.

This solution includes the use of innovative PP additives, suggestions on PP sheet manufacturing, end

product design and marketing proposals, the exploration of channel carriers, as well as collaborations with other equipment builders and additive manufacturers.

"This solution has been launched to the market in countries such as Japan and is a trendsetter," said Mr Wang.

In the fast moving consumer goods packaging market, the choice of materials for use in large extrusion blow-molded packaging products is limited. Milliken has released a new



Vincent Wang, Asia Marketing & Communication Leader at Milliken Chemical.

solution for producing extrusion blow molded PP bottles with ultra-high transparency and impact resistance. The core of this new solution is the Millad NX 8000E additive, which gives PP packaging the advantages of lightweight, cost-effectiveness and attractive appearance.

Innovation is about breaking traditions and norms

Mr Wang considered that the nature of innovation actually originates from market needs and the key to successful innovation is to break traditions and norms.

As a result of market globalization, as well as changes and upgrading of the end demand, China's plastics market is in a stage of dramatic change. From material innovation to consumption pattern, and from national policy to industrial transformation, significant changes have been seen in the China market, and the entire industry is dramatically changing.

"For instance, when we talked about innovation in the plastics industry, it was the western countries that came to the mind first. But now the phenomenon of the East influencing the West is seen more and more often. There is a trend that the East is prevailing over the West," said Mr Wang.

As introduced, to further develop the Asian Pacific market, Milliken will push ahead with the second phase of its packaging innovation center located in the company's Asia Pacific headquarters in Shanghai in 2019. Upon completion of the second phase expansion, this future smart innovation center will be able to better serve the packaging market industrial chain.

Booth: 10.2G11

Exhibits

ENGEL produces complex LED headlamp lenses in large quantities

By producing LED headlamp lenses on a tie-bar-less ENGEL e-victory 310/120 injection molding machine in an automated, rework-free process, ENGEL demonstrates how geometrically highly complex liquid silicone rubber (LSR) products can be produced economically in large quantities.

During the four days of CHINAPLAS 2019, ENGEL processes Dowsil MS-1002 Moldable Silicone by Dow Silicones, a material developed specifically for use on injection molding machines. The curing speed has been optimized to obtain a smooth and very hard surface similar to thermoplastic. The high light transmission ensures a very good luminous efficiency.



LED lenses place extremely high demands on injection molding process, and the trend is towards LSR lenses.

Tie-bar-less technology as an efficiency factor

According to ENGEL, tie-bar-less injection molding machines offer a number of advantages for processing LSR. The fact that the robot can reach the cavities directly from the side without having to circumvent any obstacles reduces the handling time, therefore the mold opening time.

On top of this, the tie-bar-less technology allows for particularly compact production cells. Because there are no tie bars in the way, the mold mounting platens can be fully used

up to their very edges. This means that the high-volume lens mold necessitated by the complex component structure fits on a comparatively small 120 ton injection molding machine.



With its tie-bar-less clamping unit, the ENGEL e-victory machine allows for compact production cells.

Intelligent assistance prevents rejects

ENGEL has equipped the e-victory with iQ weight control for the production of the LED lenses to ensure the required precision during injection throughout the entire production process.

The intelligent assistance system from ENGEL's inject 4.0 program analyses the pressure profile during injection of the polymer melt, compares the measured values with a reference cycle and adjusts the injection profile, the change-over point and holding pressure shot by shot to the current conditions.

Fluctuations in the raw material and ambient conditions are automatically compensated before even a

single reject molding is produced.

Meanwhile, the camera system integrated in the process checks and documents the quality of the parts. An ENGEL viper 40 linear robot is used for parts handling.

Augmented reality reduces errors in operation

As a system supplier, ENGEL integrates all of the production cell components in a single control which can be set up via the injection molding machine's CC300 control panel.

In addition to automation, control integration also includes the LSR metering equipment, which, like the mold, comes from ACH-Solution, as well as an augmented reality (AR) solution, which ENGEL is implementing together with AVR Tech Innovations. Visitors are guided through the individual work steps required to start the production cell with AR glasses.

In the injection molding plant of the future, AR can support machine setters and maintenance personnel by increasing efficiency and reducing the risk of errors in operation.

Connectivity ensures transparency

In Guangzhou, ENGEL also presents TIG authentig for linking injection molding machines and production cells. The MES (Manufacturing Execution System) by ENGEL subsidiary TIG is tailored to the specific requirements of the injection molding industry down to the last detail.

It ensures transparency in order to, for example, utilize the capacity of the machine park or correlate productivity indicators and economic objectives. The new products that TIG presents include the TIG 2go dashboard solution and the TIG big data high-performance analysis platform.

Booth: 4.1J41

A comprehensive portfolio of inspection systems from SIKORA

The focus of SIKORA's presence at CHINAPLAS 2019 is innovation. At its booth, visitors can expect a comprehensive portfolio of systems for quality control, process optimization and cost savings in the pipe, hose and tube as well as plastics industries.

For online inspection and sorting of plastic materials, SIKORA showcases the PURITY SCANNER ADVANCED. The system combines X-ray with optical technology and detects contamination inside plastic pellets as well as on their surface.

Perfection in detection provides the adaptive camera concept, where up to three optical cameras are used, depending on the expected contamination and application. For example, an X-ray camera detects metallic contamination inside pellets, while optical cameras identify yellow discolorations as well as "black specks" inside transparent and opaque pellets, whereas color deviations are detected by color cameras. Contaminated pellets are sorted out automatically.

For sample testing or incoming goods inspection and analysis of plastic materials, the company presents the PURITY CONCEPT V. Placed on a tray, material samples are moved through the inspection area. Within seconds, the material is inspected automatically by a color camera and a projector marks the contaminated material directly on the sample tray.

For 100% quality control during the extrusion of pipes, the CENTERWAVE 6000 demonstrates its capability. Millimeter wave technology precisely measures the diameter, ovality, wall thickness and the inner profile (sagging) of the product. A presetting of the product parameters is not required.

Furthermore, SIKORA also presents diameter measuring systems of the LASER Series 2000 as well as LASER Series 6000, which also offer lump detection in addition to diameter measurement.

Booth: 5.1C39



The CENTERWAVE 6000 for online pipe dimension measurement in extrusion lines.

EWIKON to focus on multi cavity applications

At the show, EWIKON showcases its full range of standard hot runner solutions as well as the latest developments in multi-tip and valve gate technology with focus on multi cavity applications.

The advanced EWIKON manifold technology uses the special EWIKON element technology for easy realization of most complex manifold layouts on several levels. All systems can be supplied as valve gate versions as well.

The range of valve gate solutions offers a variety of drive options for easy adaption to specific application requirements. This includes the second generation of electric drive units with step motor technology.

Compared to pneumatic or hydraulic drive units, there is zero emission of particles. Thus, this technology is particularly suitable for clean room applications. Furthermore, the system enables the individual adaptation of operating parameters to the process requirements in several valve pin operating modes.

The EWIKON range of advanced solutions for direct side gating allows the easy processing of standard materials as well as technical resins. Due to the patent pending installation technology for the tip inserts, an easy installation and exchange from the parting line of the mold is possible and only standard mold inserts are required.



Complete hot half with synchronous plate valve gate system.

Booth: 5.2C09

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Growing demand for TPE expected for next five years



Hendrick Lam, Senior Vice President of Advanced Materials Division

"We are riding on a wave of this growing trend to enhance our TPE business."

TSRC Corporation, an international company specializing in synthetic rubber, is a long-time exhibitor of CHINAPLAS.

The company's Senior Vice President of Advanced Materials Division, Hendrick Lam, noticed that the global TPE (Thermoplastic Elastomers) market has grown by 4.2% in 2018 and the momentum is expected to thrive until 2024.

"At TSRC, a leading producer of TPE, we are riding on a wave of this growing trend to enhance our TPE business. We will focus on specialty products and expand our manufacturing capability to offer products of improved quality and reliability to our customers," he commented.

Despite staggering growth around the world, he sees a promising future in China.

"Although the IMF (International Monetary Fund) has cut its global GDP growth forecast to 3.3%, it has raised China's growth forecast to 6.2%, citing China's effort to support its economy and its improved outlook on the trade conflicts with the US."

In the short term, TSRC aims to provide high value-added and high profit products. "TSRC strategically focuses on new applications and new platform developments. We take pride in our commitment to collaborating with our customers, developing innovative products and maintaining good relationships with business partners," he said.

Innovative medical-grade products

TSRC is showcasing Vector® 8101, designed for the medical industry as an alternative to vulcanized rubber through its eco-friendly features. Used as plastic modifiers for medical applications such as syringe plunger tips, closures and stoppers, it has passed cytotoxicity testing and is well-suited for general modifications of articles for medical applications.

Specifically, Vector® 8101 is a 32% styrene content SEBS (Styrene-Ethylene/Butadiene-Styrene) with medium-to-high molecular weight. By using TSRC technology, its ash content has been lowered to meet pharmacopeia requirements of <0.1%. It has passed ISO 10993-5 and USP class VI testing, and is produced in a plant that complies with medical GMP management.

"With our new SEBS line to be launched in Nantong, China, a series of medical-grade products will be gradually introduced into the market," he added.

He revealed that the company's new SEBS line is going to commence operation in Q4 of 2019. Constructed with state-of-the-art technology, this 20,000 ton-capacity facility will consist of an advanced SEBS line, which will meet the increasing quality demands of the market and deliver valued-added products to customers around the globe.



TSRC is a long-time exhibitor of CHINAPLAS.

Booth: 10.2G07

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