



April 24-27, 2018

National Exhibition and Convention Center, Hongqiao, Shanghai, PR China

For immediate release

CHINAPLAS – Automotive Industry’s Door to Lightweight & Green

The world is shifting into high gear on sustainability. China, one of the major manufacturing countries of cars, has put emphasis on the development of energy-saving and new energy automobiles in its "Made in China 2025" strategy. According to a report in January 2018 by the China Association of Automobile Manufactures, production of new energy automobiles in 2017 amounted to 794 thousand, a year-on-year growth of 53.8%.

"Innovation is Key to the Future", theme of CHINAPLAS 2018, is architected around to call for electric, lightweight and intelligent vehicles. The show will be replete with high-tech, energy-saving and environmentally friendly solutions for automotive industry by more than 1,500 exhibitors.

The future is lightweight and energy-saving

Polymer-based composites, thanks to their lightness, strength, moldability, elasticity, corrosion resistance and weatherability, play an important role in producing lightweight vehicles. Reduction in weight, a crucial factor of new energy autos, calls for the use of composites, employing which in the making of structural parts and coverings can reduce weights by about 30%.

Beijing Tiangang Auxiliary Co., Ltd. will introduce new applications of the "Targeted Nano Enhancement Technology" at CHINAPLAS 2018 for the automotive industry to achieve thin-wall and lightweight goals. The technology makes use of the special targeted release and enhancement of high performance nano particles and facilitates the nano dispersion of functional additives in polymer composites, improving a number of properties, such as higher crystallization, better mechanical properties, melt flows, processing properties and lower VOC.

DSM is a CHINAPLAS veteran and this year DSM’s Stanyl® HGR2 PA46 resin will be displayed. DSM’s

Stanyl® HGR2 PA46 resin is powered by a 5.0L V8 engine as a drop-in replacement for PA66, providing enhanced wear and friction performance. Environmental benefits include reductions in gas consumption and green-house gas emissions. The resin has already been used in chain tensioner arms in the Ford F-150 and Mustang, and will be utilized on more vehicles beginning in 2018.

In order to achieve "green" automotive manufacturing, apart from using lightweight and higher performance alternative materials, new equipment and new processing technology do accelerate the development of automotive lightweighting and energy saving.

The EC-SXII series of all-electric injection molding machines from Shanghai Toshiba Machine Co., Ltd. is equipped with more advanced injection capability compared to the previous EC-SX series. The machines are expected to better meet customer needs for precision molding and higher productivity. The series is able to adapt from thin-wall to thick-wall molding, offering greater flexibility to users.

MuCell injection is an innovation of precision injection molding technology, which significantly reduces the weight of the parts and shortens molding cycle, improving the buckling deformation of parts and dimensional stability. In recent years, with the development of automotive lightweighting, MuCell is widely used in the automotive industry. The Mucell instrument panel mould of Zhejiang Kaihua Moulds Co., Ltd. takes injection molding production to a new level of automation, enhancing productivity.

Green and beautiful, it's irresistible

Elegant appearance and high-class feeling are what make a car appeal to consumers. To this end, spray-free materials have been among the favourites. They are colourful, glossy, corrosion and scratch resistant, recyclable, low costs and answers well to aesthetic needs.

Covestro Polymers (China) Co., Ltd. will showcase its high-performance, coat-free grade auto interior material, Covestro Makroblend® SR60. It increases scratch and chemical resistance for unpainted applications in automotive interiors, and has good impact strength and resistance to heat. High-gloss is achieved with the use of dynamic heat and cool tool tempering. UV-stable interior colors are customizable according to customer requests.

Nordson Xaloy® Polycarbonate Injection Molding System is a screw-valve-barrel package that provides exceptional clarity and homogeneity when molding polycarbonate resins. The benefits are excellent optical clarity and significantly reduced black specking, resulting in higher productivity and minimal waste. Applications include automotive lighting, spectacles, data storage device, electrical and telecom components, etc.

Sales of automobiles has spurred hand in hand with more critical requirements demanded on manufacturers. According to studies, respectively 18% and 15% car owners in China are mainly concerned about their vehicles' external appearance and interior decor. They are also conscious of odours inside cars, and this mindfulness is proportional to the price of the car, which means owners with greater purchasing powers are more particular to the existence of smells. As a result, automakers have to work hard to reduce VOC emission inside cabins.

Cabot China Investment Co., Ltd. will debut a near-odorless, bluish black masterbatch for auto application. The bluish undertone provides excellent aesthetic elegance. Jet black masterbatch is for effective coloration and retain good physical properties in the final product, and with good dispersion to ensure high glossy surface. It is suitable for direct application using automatic dosing units or by pre-blending thanks to its ease of dilution and homogeneous mixing.

“3rd Industry 4.0 Conference” sneak peek

The “Automotive 4.0” seminar at the “2nd Industry 4.0 Conference” last year was a well-received full house event. Adsale Exhibition Services Ltd., organizer of CHINAPLAS, is again co-organizing with VDMA – German Engineering Federation, for the “3rd Industry 4.0 Conference”. World renowned exhibitors will jointly explain actual applications of their technologies with visitors, bringing insights into smart manufacturing from multiple perspectives. Participants can expect plenty of industry 4.0 factory case studies and in-depth application discussions.

CHINAPLAS 2018 will take place on April 24 – 27, 2018 in a new venue, National Exhibition and Convention Center (NECC), Hongqiao, Shanghai, PR China, with “Smart Manufacturing”, “Innovative Materials”, “Green Solutions” being the show focuses. More than 4,000 well-known international suppliers will be showcasing new technologies in a 340,000sq metres exhibition area, surpassing all the

previous editions in terms of show scale. Over 1,500 exhibitors will provide solutions with plastics machinery, materials and technology applicable to the automotive industry. These include BASF, Covestro, Lanxess, Solvay, SABIC, Mitsui Chemicals, LG Chem, DSM, Teijin, Jushi, Sumitomo, KraussMaffei, Kuka, Arburg, Engel, Mold-Masters, ABB, Synventive, Yizumi, Yudo, Runipsys, Siemens, Autodesk, etc.

CHINAPLAS is expected to attract more than 180,000 professional visitors from over 150 countries or regions. So far, a number of global leading OEMs and spare parts enterprises have already pre-registered for onsite visiting, including representatives from SAIC MOTOR, Geely, NIO, General Motor, Honda, GAC Group, and Dongfeng Motor etc.

For walk-in visitors, RMB 50 and RMB 80 will be charged for a one-day pass and a four-day pass respectively. Visitors can enjoy admission discount through online pre-registration from now till April 18, 2018, at an early-bird rate of RMB 50 for a four-day pass.

To pre-register now, please visit www.ChinaplasOnline.com/prereg.

For more information about CHINAPLAS 2018, please visit www.ChinaplasOnline.com.

Please click the photos for high-resolution photos:

CHINAPLAS – Automotive Industry’s Door to Lightweight & Green

[Photo 1:](#)



[Photo 2:](#)



[Photo 3:](#)



[Photo 4:](#)



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[Photo 11:](#)



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About CHINAPLAS 2018

CHINAPLAS 2018 is organized by Adsale Exhibition Services Ltd. and Beijing Yazhan Exhibition Services Ltd. and co-organized by China National Light Industry Council - China Plastics Processing Industry Association, China Plastics Machinery Industry Association, Messe Düsseldorf China Ltd., the Plastic Trade Association of Shanghai. The event is also supported by various plastics and rubber associations in China and abroad.

First introduced in 1983, CHINAPLAS has been approved by UFI (The Global Association of the Exhibition Industry) since 2006. CHINAPLAS is exclusively sponsored by the Europe's Association for Plastics and Rubber Machinery Manufacturers (EUROMAP) in China for the 29th time. CHINAPLAS is currently Asia's No. 1 plastics and rubber trade fair.