Press Information

Dow Performance Silicones
2200 W. Salzburg Rd.
Midland, MI 48686

Dow Performance Silicones Showcases at Fakuma 2018 Its Growing Portfolio of Silicone Masterbatches for Optimizing Plastic Processing & Performance

Innovative Silicone Technologies Address Trends in the Appliance, Automotive, Packaging and Wire & Cable Sectors

FRIEDRICHSHAFEN, GERMANY – 17 October 2018 – Dow Performance Silicones, a global business unit of DowDuPont Specialty Products Division, is exhibiting here at Fakuma 2018 in Nexeo Solutions' stand (#A3-3217), its broad portfolio of silicone-based masterbatches for polyethylene (PE), polypropylene (PP), polyamide (PA) and polycarbonate/acrylonitrile-butadiene-styrene (PC/ABS) resins and compounds. These industry-leading solutions have been engineered to enhance processing, extend properties and reinforce materials to address the latest trends in a range of industry applications, including flexible food and non-food packaging, automotive interior and under-hood components, wire & cable insulation and jacketing, and appliance gears and other high-wear parts. Dow Performance Silicones continues to expand its portfolio with new, differentiated solutions, such as its new DOW CORNING™ MB25-235 Masterbatch for form-fill-seal (FFS) packaging production, being launched today at Fakuma.

In addition to its display at the Nexeo Solutions stand, Dow Performance Silicones will also feature automotive parts based on its silicone technologies at DuPont's stand (#B4-4200).

"Becoming part of DowDuPont has opened up several new and promising opportunities for us to innovate on behalf of customers," said Christophe Paulo, Industrial and Consumer strategic marketer, EMEA, Dow Performance Silicones. "Access to a broader set of resources and chemistries, combined with our steadfast commitment to customer collaboration and technology excellence, are accelerating our efforts to address the most pressing needs of our customers in a variety of vertical industries. Our newest silicone-based solutions, which are being launched or newly featured here at Fakuma, illustrate our success in this endeavor."

Silicone Solutions for Packaging

Dow Performance Silicones offers multiple solutions that help the packaging industry respond to consumer trends such as "snackification" and fresh-to-go foods with creative, flexible designs. The newest addition is DOW CORNING MB25-235 Masterbatch for FFS packaging, which offers global food contact compliance, long-lasting slip performance and non-migration to the film surface. It is also ideally suited for use in agricultural films.

Another recent innovation for the packaging industry, DOW CORNING™ HMB-6301 Masterbatch for bi-axially oriented PP (BOPP) and PP cast film, was last year. This product delivers stable, long-term slip performance without problematic migration to enable superior printing and metallization for high-quality, attractive packaging.

Dow Performance Silicones also offers several other silicone-based solutions for packaging: DOW CORNING™ MB50-001 Masterbatch for reducing coefficient of friction (COF) and preventing scratching/marring in PP; DOW CORNING™ MB50-002 Masterbatch for improved processing and flow of low-density PE (LDPE) resin; DOW CORNING™ MB25-502 Masterbatch, which optimizes processability of LDPE and linear low-density PE (LLDPE); and DOW CORNING™ MB25-501 Masterbatch for improving slip performance and processability of PP.

Silicone Solutions for Automotive Interiors

A top trend in automotive interiors is the reduction of noise, vibration and harshness (NVH) as consumers adopt ultra-quiet electric vehicles and look forward to self-driving cars that are conducive to entertainment and relaxation. Dow Performance Silicones is helping the industry reduce NVH in vehicle cabin components with its new DOW CORNING™ HMB-1903 Masterbatch, a patented anti-squeak additive, launched in April in China at Chinaplas 2018. It immediately and permanently reduces COF in PC/ABS parts, and can replace time-consuming, labor-intensive post-treatments to improve cost control, design freedom and productivity.

In addition to noise reduction, the auto industry is concerned about maintaining the aesthetics of vehicle interiors – particularly as ride-sharing services expose them to greater wear and tear. Consumers expect a car's cabin to maintain an attractive appearance, pleasing tactile properties and consistent quality. To improve the scratch resistance of talc-filled PP copolymer compounds widely used in interior components, Dow Performance Silicones offers silicone-based additives that perform as anti-scratch, anti-abrasion surface agents. For example, DOW CORNING™ HMB-0221 Masterbatch delivers exceptional anti-scratch performance and high ultraviolet (UV) stability, and also reduces dust build-up in PP copolymers. Additionally, it provides a unique soft touch and silky feel.

Silicone Solutions for Wire & Cable

As the wire & cable industry adopts halogen-free flame retardants, these mineral additives can cause major processing issues due to the high loadings required for effectiveness. DOW CORNING™ MB25-502 Masterbatch optimizes processability of highly mineral-filled PE compounds for insulation and jacketing applications – at an affordable cost. By reducing screw torque, die build-up and die pressure, the masterbatch can improve extrusion throughput by up to 110 percent compared to PE compounds without a processing additive.

Silicone Solutions for Automotive Underhood and Appliance Wear Parts

Dow Performance Silicones' slip additives reduce COF to improve the wear resistance and processing of polyamide compounds used for demanding wear applications, including automotive under-hood and appliance gears and bearings. DOW CORNING™ HMB-1103 Masterbatch delivers slip and wear performance similar to polytetrafluoroethylene (PTFE) additives, but at very low loadings and without the use of potentially toxic fluorine. This technology is highly efficient at suppressing the slip-stick phenomenon, the spontaneous jerking motion that can occur while two objects are sliding over each other. It also acts as a processing aid and improves flow.

For enhanced anti-scratch performance in glass fiber-reinforced PA compounds, DOW CORNING™ MB50-011 Masterbatch is the material of choice. At loadings of 1.5-2.0 wt%, this masterbatch delivers improved surface properties and resistance to scratching. It also provides some COF reduction benefits, more so in neat PA.

Fakuma 2018 runs here from 16-20 October at the Friedrichshafen Exhibition Centre. Dow Performance Silicones technical experts are on hand at the Nexeo Solutions' stand to discuss how its advanced silicone-based technologies can help customers enhance their application performance and processing.

NOTE TO EDITORS
Dow Performance Silicones, in conjunction with Underwriters Laboratories (UL) will present a webinar covering technical details about the new DOW CORNING MB25-235 Masterbatch on November 27 at 3pm CET. Register to attend.

About Dow Performance Silicones
Dow Performance Silicones, a business unit of The Dow Chemical Company, delivers a portfolio of performance-enhancing solutions to serve the diverse needs of customers and industries around the world. The business uses innovative silicon-based technology to provide solutions and ingredients to customers in commercial construction and high performance building, consumer goods, silicone elastomers, and pressure sensitive industries. As a global leader in innovation and silicone technology, we are committed to bringing new and proven solutions to the market that do more for our customers and continue to improve the lives of consumers worldwide. Visit consumer.dow.com to learn more. Dow is a subsidiary of DowDuPont (NYSE: DWDP), a holding company comprised of Dow and DuPont with the intent to form three strong, independent, publicly traded companies in agriculture, materials science and specialty sectors. More information can be found at www.dow.com.

About DowDuPont Specialty Products Division:
DowDuPont Specialty Products, a division of DowDuPont (NYSE: DWDP), is a global innovation leader with technology-based materials, ingredients and solutions that help transform industries and everyday life. Our employees apply diverse science and expertise to help customers advance their best ideas and deliver essential innovations in key markets including electronics, transportation, building and construction, health and wellness, food and worker safety. DowDuPont intends to separate the Specialty Products division into an independent, publicly traded company. More information can be found www.dow-dupont.com.

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For further information contact:
Amy Godfrey
AH&M Marketing Communications
+1 413.448.2260, Ext. 370
agodfrey@ahminc.com

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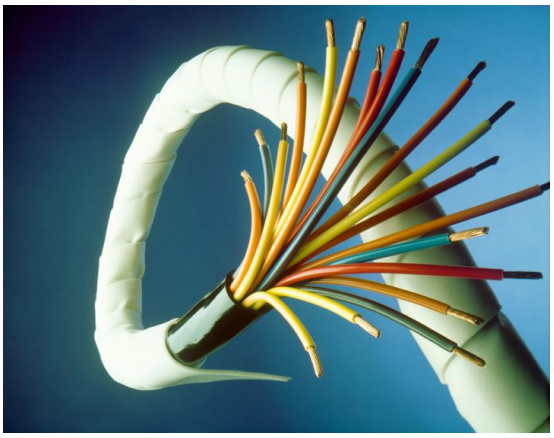

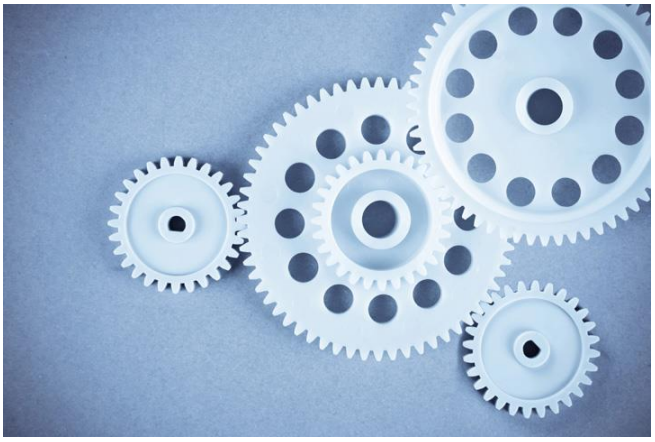

PHOTOS: Dow Performance Silicones' Advanced Solutions Address the Latest Trends in Flexible Packaging, Automotive Interior and Under-hood Components, Wire & Cable Insulation and Jacketing, Appliance Gears and Other Wear Parts and Other Industry Applications

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