

Press release

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WACKER Debuts Expanded Silanes Portfolio at Compounding World Expo North America

- GENIOPLAST® PELLET 345 and GENIOPLAST® PELLET P PLUS are FDA-approved film additives that enhance flow and mechanical properties and serve as slip agents for biaxially oriented polypropylene films.
- GENIOPLAST® PP50S12 and GENIOPLAST® PE50S08 enhance scratch and mar resistance while maintaining a luxurious, non-tacky, and non-fogging surface.
- GENIOSIL® organofunctional silanes enhance compounding performance, offering over 60 solutions for mineral and filler treatment, improved matrix-filler adhesion, and better dynamic mechanical properties.

Ann Arbor, Mich. – Wacker Chemical Corporation (WCC) showcases two brands at this year's Compounding World Expo in Cleveland, Ohio, November 12–13: GENIOSIL® organofunctional silanes which are designed to elevate performance of adhesives, sealants, surface coatings, composites and crosslinked polyethylene (PE) and polypropylene (PP), and GENIOPLAST® silicone based additives and production aids which improve processing and key properties of standard thermoplastics and engineering plastics. These materials stand out for their unique ability to combine environmental benefits with high-performance functionality.

GENIOSIL® organofunctional silanes act as molecular bridges, enhancing compatibility between organic polymers and inorganic materials such as fillers,

pigments, and substrates. This results in improved processing, better filler dispersion, reduced viscosity, and increased storage stability. Additionally, these silanes significantly boost mechanical strength, adhesion, and resistance to moisture and chemicals, making them a versatile solution for manufacturers seeking both efficiency and durability in their formulations.

GENIOSIL® PELLET 345 for Film Additives

WACKER is highlighting GENIOPLAST® PELLET 345, a high-performance silicone-based additive designed for thermoplastic elastomers and approved for polypropylene (PP) based food contact applications. Its unique silicone copolymer structure enhances flow and mechanical properties in blown films, making it especially well-suited for food packaging. The additive's non-toxic and odorless characteristics meet stringent safety standards, enabling its use in applications such as flexible food wraps and packaging films. In addition to food-related uses, GENIOPLAST® PELLET 345 also supports a variety of thermoplastic polyurethane (TPU) applications, including consumer goods, automotive components, and medical devices.

Masterbatch Additives Enhanced Surface Effects

GENIOPLAST® PP50S12 and GENIOPLAST® PE50S08 are high-performance silicone-based additives designed to enhance surface quality and processing in polypropylene (PP) and polyethylene (PE) compounds, respectively. Both contain 50% ultra-high molecular weight, non-reactive silicone gum dispersed in a compatible polymer carrier, reducing surface friction and improving scratch and mar resistance.

GENIOPLAST® PP50S12 is ideal for automotive interior components such as dashboards, door panels, and center consoles, as well as packaging films and outdoor furniture. It delivers a soft-touch, non-sticky, non-blooming surface without compromising mechanical properties at recommended use levels (1–3%).

GENIOPLAST® PE50S08 improves processing efficiency in PE compounds by lowering melt viscosity and die pressure, making it easier to unroll films and enhancing surface feel with a silky, dry finish. It's used in packaging, white goods, automotive parts, and recycled materials.

Both additives significantly improve surface aesthetics and durability, offering smoother finishes, better abrasion resistance, and enhanced productivity—without sacrificing thermo-mechanical performance.

Visit WACKER at the Compounding World Expo North America Booth C1411.



WACKER's GENIOPLAST® Pellet P Plus is an FDA-compliant silicone-based additive designed for food contact applications, including polypropylene (PP) and BOPP films. It improves flow and mechanical properties during processing and acts as an effective slip agent, enhancing surface quality without compromising performance. (Source: WACKER)

Please note: This press release and the accompanying photo are available for download on the WACKER News, North America website <https://www.wacker.com/cms/en-us/about-wacker/wacker-global/north-america/news.html>

Additional Information

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The company in brief:

WACKER is a global company with state-of-the-art specialty chemical products found in countless everyday items, ranging from tile adhesives to computer chips. The company has a global network of 27 production sites, 21 technical competence centers and 46 sales offices. With around 16,600 employees, WACKER generated annual sales of around €5.7 billion in fiscal 2024.

WACKER operates through four business divisions. The Silicones and Polymers chemical divisions supply products (silicones, polymeric binders) for the energy, industrial, automotive, construction, chemical, consumer goods and medical technology industries. Biosolutions, the life sciences division, specializes in bioengineered

products such as biopharmaceuticals and food additives. Polysilicon produces hyperpure polysilicon for the semiconductor and photovoltaic industries.

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