

PRESS RELEASE

HOUSTON, TEXAS, April 27, 2021

SABIC DEBUTS A NOVEL BIO-BASED LNP™ COMPOUND THAT CAN HELP REDUCE CARBON EMISSIONS AND FOSSIL FUEL USE

SABIC today launched new bio-based LNP™ THERMOCOMP™ DC0041PE-7M1D145W compound, offering customers a new sustainable option for demanding applications in electrical/electronics, healthcare and other key industries. This new flame-retardant, carbon fiber-reinforced compound has a reduced carbon/energy footprint compared to its incumbent product, LNP THERMOCOMP DC0041PE-7M1D145 compound, while delivering the same properties.

“SABIC continues to invest in cutting-edge research and development focused on improving the sustainability of our products without compromising on performance and processability,” noted Joshua Chiaw, Director, Business Management, LNP Compounds & NORYL Resins, SABIC. “All aspects of the value chain, from raw materials to finished goods, are certified through ISCC and compliant with regional and global regulations. The success of our first bio-based compound is inspiring us to accelerate our innovation efforts to develop totally new ways to support customers and protect the planet.”

Increasing Sustainable Content

For every 100 kg of LNP THERMOCOMP DC0041PE-7M1D145W compound, 21 kg of fossil-based materials have been replaced with bio-based materials derived from waste or residue, such as crude tall oil and hydrotreated vegetable oils, based on a mass balance approach. Moreover, this new compound was developed with over 50 percent of recycled content from post-consumer recycled (PCR) resin and pre-consumer recycled carbon fiber sources.

According to an internal life cycle analysis conducted in accordance with ISO 14040/14044 protocols, LNP THERMOCOMP DC0041PE-7M1D145W compound can offer potential reductions in carbon footprint of up to 17 percent when compared to the fossil-based incumbent material. Critically reviewed SABIC primary data combined with the latest manufacturing data and industry average estimates were used in the cradle-to-gate comparison of these compounds.

Adding to its environmental value, LNP THERMOCOMP DC0041PE-7M1D145W compound complies with the requirements of the Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation and the Restriction of Hazardous Substances (RoHS) directive.

While delivering greater sustainability, the new bio-based compound does not alter the polymer properties of the incumbent material, which include high temperature resistance, excellent mechanical performance and structural properties, good processability and halogen-free flame retardance. Because it delivers the same mechanical properties as the incumbent material, it can be used as a drop-in solution, giving customers a seamless opportunity to advance their sustainability strategies.

Potential applications for this injection molding product include thin-wall parts, such as housings for consumer electronics, and components like surgical instruments that require good dimensional stability.

Currently, LNP THERMOCOMP DC0041PE-7M1D145W compound is manufactured in Asia Pacific, with plans to expand local production to other geographies, as needed.

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NOTES TO EDITORS

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- SABIC should be written in every instance in all uppercase.

ABOUT SABIC

SABIC is a global diversified chemicals company, headquartered in Riyadh, Saudi Arabia. It manufactures on a global scale in the Americas, Europe, Middle East and Asia Pacific, making distinctly different kinds of products: chemicals, commodity and high performance plastics, agri-nutrients and metals.

SABIC supports its customers by identifying and developing opportunities in key end-use applications such as construction, medical devices, packaging, agri-nutrients, electrical and electronics, transportation and clean energy. Production in 2020 was 60.8 million metric tons.

The company has more than 32,000 employees worldwide and operates in around 50 countries. Fostering innovation and a spirit of ingenuity, SABIC has 9,946 global patent filings, and has significant research resources with innovation hubs in five key geographies – USA, Europe, Middle East, South Asia and North Asia.

PHOTOS AND CAPTIONS



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