

Emerald Innovation NH 500: New phosphorus flame retardant from LANXESS

- **Phosphorus-based, non-halogen flame retardant for engineering plastics**
- **Efficient chemistry platform**
- **High thermal stability**
- **Excellent mechanical properties of end products**

Cologne, September 28, 2022 – Specialty chemicals company LANXESS has developed a non-halogen flame retardant that will soon be offered under the brand name Emerald Innovation NH 500. The phosphorus-based additive is designed primarily for use in glass fiber-reinforced plastics used to manufacture products for the electrical and electronics (E&E) industry.

Outstanding flame retardant properties

The new polymer additive from LANXESS exhibits very good flame retardant properties in combination with other additives and easily meets the relevant fire safety tests. A glass-fiber-filled PA66 formulated with Emerald Innovation NH 500 passed the UL 94 fire test of the U.S. testing company Underwriters Laboratories Inc. with an outstanding V-0 classification at 0.8 mm test specimen thickness. In glow-wire testing, the highest intended glow-wire flammability Index (GWFI) of 960 °C is achieved without difficulty by a specimen of 3 mm thickness. The glow-wire ignition temperature (GWIT) was measured up to 875 °C which is significantly higher than that of the reference (775 °C).

Mechanical properties maintained

LANXESS has developed versatile formulations for its new flame retardant. They ensure that the mechanical properties and other functional characteristics of the end products are maintained. In addition, the product can boast excellent thermal stability and a unique morphology. The combination of very good flame retardant

LANXESS AG

Contact:
Michael Fahrig
Corporate Communications
Spokesperson Trade & Technical
Press
50569 Köln
Germany

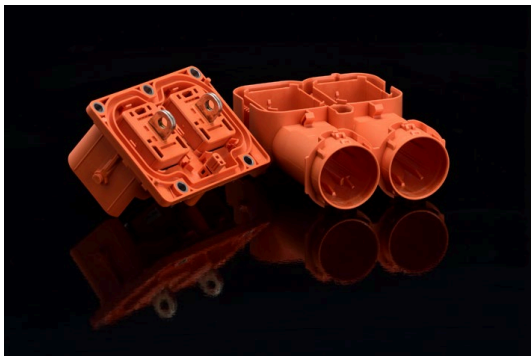
Phone: +49 221 8885-5041
michael.fahrig@lanxess.com

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properties and high dimensional stability in engineering thermoplastics, such as polyamide 6 and 66 (PA6, PA66), offers compounders and processors promising applications.

More information on LANXESS' polymer additives is available at <https://pla.lanxess.com>.

Image



Emerald Innovation NH 500: New non-halogen flame retardant from LANXESS. The phosphorus-based additive is designed primarily for use in glass fiber-reinforced plastics used to manufacture products for the electrical and electronics (E&E) industry.

Photo: LANXESS

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Germany

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News Release

LANXESS is a leading specialty chemicals company with sales of EUR 6.1 billion in 2021. The company currently has about 13,200 employees in 33 countries. The core business of LANXESS is the development, manufacturing and marketing of chemical intermediates, additives and consumer protection products. LANXESS is listed in the leading sustainability indices Dow Jones Sustainability Index (DJSI World and Europe) and FTSE4Good.

Forward-Looking Statements

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Information for editors:

All LANXESS news releases and their accompanying photos can be found at <http://press.lanxess.com>. Recent photos of the Board of Management and other LANXESS image material are available at <http://photos.lanxess.com>.

You can find further information concerning LANXESS chemistry in our WebMagazine at <http://webmagazine.lanxess.com>.

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Contact: Michael Fahrig
Corporate Communications
Spokesperson Trade & Technical
Press
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