

Press Info

Hamburg, October 2019

Heat stabilizers for polypropylene and polyamide

LUVOBATCH® products are the LEHVOSS Group's masterbatches for polymer foaming, flame retardancy and processing. Amongst others, new systems for stabilizing polypropylene and polyamide in high temperature applications have been developed.

The usage of highly concentrated masterbatches as an alternative to stabilized compound solutions offers the advantage that the dosage can be precisely adapted to the individual needs and requirements of each application. This means significantly more flexibility and often a cost saving as well.

To enable polypropylene to be used in automotive applications that require high heat stability, LUVOBATCH® PE AO 0077 was developed. Quite often, unstabilized polypropylene may not be used in these applications, as the temperature requirements cannot be fulfilled. Using LUVOBATCH® PP AO 0077 increases the temperature stability significantly and thus enables polypropylene to be used in areas, in which previously only high-heat polymers could be used.

For polyamide, we offer the copper stabilized products LUVOBATCH® PA HS 9611 and LUVOBATCH® PA AO 0043. These masterbatches offer a superb stabilization for construction elements and products, which are exposed to higher temperatures over a longer period of time. For example, by using 5 % LUVOBATCH® PA AO 0043 in PA6, 70 % of the mechanical properties were retained after exposure to 175 °C for 240 hours or 150 °C for 3000 hours. By using 5 % LUVOBATCH® PA AO 0043 in filaments of PA1010 and PA 6.10, the applications can be exposed to 180 °C for 7 days without loss of function.

The requirements of the end application determine which product is better suited:

- LUVOBATCH® PA HS 9611 is food approved and should be used for dark, non-transparent applications.
- LUVOBATCH® PA AO 0043 is for technical applications (not food approved) and can also be used in transparent applications.

Further details, please send an e-mail to LUVOBATCH@lehvoss.de.

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The LEHVOSS Group under the management of Lehmann&Voss&Co. is a group of companies in the chemicals sector that develops, produces and markets chemical and mineral specialties for various industrial clients. Lehmann&Voss&Co., Hamburg, was founded in 1894 as a trading company. Since that time, the owner-run company has evolved into a powerful global organization – with long-standing connections to prominent, mainly foreign suppliers with their own production sites.

LUVOBATCH® – Customized masterbatches made by the LEHVOSS Group. Our LUVOBATCH® business unit is an internationally active partner in the plastic processing industry, which develops, produces and sells high-quality and customized masterbatches and additives. Our experienced and committed team of experts guarantees high flexibility and individualised service. At LUVOBATCH®, development, production, laboratory, engineering and sales are all combined under one roof. We offer our customers the utmost in individuality and innovation speed.

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