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Effective protection for sensitive goods in transparent packagings

Clear PET bottles require additional UV protection to ensure the shelf life of the contents. This function is provided by the non-colored additive batches of the new FIBATEC series.

Wuppertal, September 2022 - Finke, a leading manufacturer of plastic coloring products, has developed a new additive batch series that is entirely focused on function. With the new FIBATEC masterbatch series, the Wuppertal-based company offers uncolored additive batches based on bottle grade PET or rPET, which are equipped with a UV absorber to protect the contents. An embellished variant that can compensate for yellow discoloration is also available.

To improve recyclability of packaging plastics, clear bottles for food or cosmetics have become increasingly popular. In contrast to opaque or dark-colored plastic packagings, transparent plastic packagings offer no inherent light protection. This is, however, an important feature, as high-energy UV radiation can destroy the molecular structures of fragrances and flavorings or vitamins and cause dyes to fade.

Strong protection in the near UV range

The FIBATEC additive batch series has been specially developed for the protection of sensitive goods. The FIBATEC additive batches are free of benzotriazoles, PAAs, PAHs and contain neither CMR substances nor SVHC. Depending on the UV absorber used, they offer reliable protection in the near UV range up to 380 nm or 395 nm. FIBATEC additive batches also comply with EU Regulation 10/2011 on plastic materials and articles intended to come

into contact with foodstuffs, FDA requirements and Chinese regulations GB4806 and GB9685. They are approved for packaging and registered in the chemical inventories in Europe (REACH), the USA (Toxic Substance Control Act, TSCA) and China (Inventory of Existing Chemical Substances in China, IECSC).

FIBATEC masterbatches are available based on PET and rPET carrier. Since the PET is post-crystallized, the FIBATEC masterbatches can be processed easily on all common equipment and are particularly suitable for single- and two-stage injection stretch blow molding. The reliable UV protection guarantees a longer shelf life of the contents. Tests at Finke's Technical Center have shown, for example, that bottles equipped with FIBATEC UV protection provide a 30 times longer shelf life for vitamin A compared to bottles without UV protection. Blue tinted contents retain color up to 7x longer in the UV-protected container.



Finke_FIBATEC.jpg

The non-colored additive batches of the new FIBATEC series reliable UV protection to ensure the shelf life of the contents. (Source: Finke)

About Finke:

Karl Finke GmbH & Co. KG, with registered office in Wuppertal (Germany), ranks among the largest medium-sized manufacturers of pigment preparations for the plastics'-processing industry in Europe. The high-quality master batches, liquid paints, color pastes and pulverised pigment preparations are used in cosmetics' and foodstuffs' packaging, in injection-moulding applications, in technical components, in film-processing as well as in the automotive and furniture industries.

With 70 years of experience in the sector, the ISO 9001, 14001 and 50001-accredited company prides itself in its ability to accompany its customers and their products from the design phase all the way through to start of production. State-of-the-art technical equipment is the customer's guarantee of a second-to-none, application-specific advisory service in colors, all of which can take place either in the company's in-house laboratory facility or on the customer's own premises.

As an independent company, Karl Finke GmbH & Co. KG operates distribution bases in numerous different countries and exports its products on a worldwide scale.