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Paving the way to circularity:

PCR based masterbatch series FIBAREC and FIBAPLAST NIR detectable Black masterbatches

The disruptions in supply chains, the economy has seen worldwide, as well as a new urgency to replace fossil sources with more sustainable ones, render circularity still more important for the plastics industry. To become truly circular, recyclates have to find a wider range of application, ideally in real product to product recycling. With its FIBAREC masterbatch series based on recyclates and a range of FIBAPLAST NIR detectable Black masterbatches, leading plastic colorant producer Finke enables closing the loop when it comes to coloring plastics.

Closing the loop with recyclate based colorants

Using masterbatches from the FIBAREC series, attractive colorful plastic products like bottles or containers can be made from 100 % recyclate. The FIBAREC masterbatches are based either on post consumer recyclates (PCR) or post industrial recyclates, available in rPET carrier, with rPE and rPP to follow shortly. Since FIBAREC masterbatches and can be processed just like masterbatches based on virgin materials, their application is possible in products based on recyclate as well as in products made from virgin material.

NIR-Sorting: The key to recycling post-consumer waste

Finke ensures that black products become fully detectable on NIR-sorting machines by using a carbon black-free pigment formulation for its FIBAPLAST NIR detectable Black masterbatches. The FIBAPLAST NIR detectable Black masterbatches are available for standard packaging polymers like HDPE, PP, PS and PET. Finke's FIBAPLAST NIR detectable Black masterbatches have been certified for rigid PE and PP packagings in October 2020 by COTREP (Comité Technique pour la Recyclage des Emballages Plastiques).

Growing range of standard colors

At Finke's technical center, experts can tailor most colorants exactly to application within a very short time. However, the fastest route to production is to make use of Finke's ever growing assortment of standard colors. More than 20 of the most popular colors in demand are on stock as formulation and sample which allows Finke to supply customers with standard colors at short notice.

The standard colors are available as masterbatch formulations and as a PE or UNI carrier (250 g sample) suitable for almost all injection molding and extrusion applications in products made of PE, PP, PA, ABS, PS, SAN, and POM. All preparations from our standard color range comply with the recommendations of the German Federal Institute for Risk Assessment (BfR). Finke's range of standard colorants is continuously adapted to the latest color and design trends, enabling a short time to market especially for packaging products.

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With its FIBAREC masterbatch series, Finke has developed a new masterbatch line to satisfy the growing demand for sustainable plastic colorant systems. Source: Finke



FIBAPLAST NIR detectable Black masterbatches are carbon black-free. This enables NIR-based polymer sorting and increases recyclability. Source: Finke



The fastest route to production is to make use of Finke's ever growing assortment of standard colors. 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 more than 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.