

## **Finke at PCD 2022**

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## **Color sustainability**

- **Innovative special effects FIBAFEKT collection for plastics coloring**
- **Combination batches for laser decoration of plastics packagings**
- **PCR based FIBAREC masterbatch series for sustainable packagings**
- **FIBAPLAST NIR detectable Black masterbatches for standard packaging plastics**

Karl Finke GmbH & Co. KG from Wuppertal, Germany, puts sustainable plastics coloring and decoration into focus at PCD 2022. Finke's new FIBAFEKT semi-compound for special effects colorings opens up new design dimensions even for products with a high PCR content. The FIBAFEKT compounds can be functionalized for color laser decoration, making additional labels from other materials dispensable. The FIBAREC masterbatch series is based on PCR, enabling the production of attractive colorful plastic products made from 100 % recycle. FIBAPLAST NIR detectable Black masterbatches ensure that black HDPE-, PP-, PS- or PET-packagings can be separated easily into the correct recycling material streams.

### **Outstanding extravagant effects in plastics coloring**

FIBAFEKT is a technical innovation that allows for a wide variety of special effects like metallic gloss, pearly shine, rainbow, color flop or chrome-like surfaces which cannot be achieved with standard masterbatches. FIBAFEKT is a semi-compound to be used in the outer layer of coextruded bottles, high end 2K-injection moulding and films.

The application of FIBAFEKT opens up new design dimensions even for products with a high PCR content. Special processes allow for an inner layer of PCR, which is covered by an out-

er layer of FIBAFEKT enabling the full range of color and effect options. FIBAFEKT can be used in a number of resins, including PE, PP, PET-G and PA12. Finke also provides customised carriers for 100 % single-origin products. FIBAFEKT is a dry and dust-free product. It does not require complex storage conditions and can be stored for up to two years.

### **Design for recycling: Color laser decoration for mono-material packagings**

Finke has also expanded its comprehensive masterbatch program for colored laser markings. These additive batches have been developed for the functional modification of existing color concentrates and masterbatches including the FIBAFEKT semi-compounds which offer both color and function. The laser technology enables direct marking and decoration of plastics packagings. The manufacturer can therefore dispense with additional labels and the packaging is classified as a mono-material packaging for easier recycling. The additive and masterbatch technology used for color laser marking has been developed at Finke's laboratory in Wuppertal. Many years of experience and a Nd:YAG laser at Finke's technical center ensure that all products are tailored to application within the shortest possible time, so customers can quickly bring their ideas to market.

### **Coloring solution for products made from 100 % recyclate**

Masterbatches from the FIBAREC series are based on either post consumer recyclates (PCR) or post industrial recyclates. This enables the production of attractive colorful plastic products made from 100 % recyclate. The FIBAREC masterbatches available so far are based on rPET. FIBAREC based on the carriers rPE and rPP will follow shortly.

FIBAREC masterbatches based on PCR can be processed like masterbatches based on virgin material. They can be used both in products based on recyclate as well as in products made from virgin material. However, since the amount of masterbatch in the finished product is usually less than 2 %, a sustainable product will only be obtained if the base polymer is also obtained from recyclates.

### **Black masterbatches for NIR-based polymer sorting**

To ensure the recyclability of black plastic products, Finke has developed a range of FIBAPLAST NIR detectable Black masterbatches for standard packaging polymers like HDPE, PP, PS and PET. By using a carbon black-free pigment formulation for its FIBAPLAST NIR detectable Black masterbatches Finke ensures that black products become

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fully detectable on standard NIR sorting machines. Thus, black HDPE, PP, PS and PET bottles, trays or caps can be separated easily into the correct recycling material streams.

### **New milestone for sustainability**

A new milestone that promotes an environmentally, socially and economically sustainable production is the ISCC Plus certification from ISCC (International Sustainability & Carbon Certification) Finke received in February 2022.

"We are proud of the ISCC Plus certification," says Managing Director Felix Finke. "The mass balance approach enables us to assign the share of sustainable raw materials – for example recyclates or bio-based materials – to our products. This makes it easier for our customers to achieve their sustainability goals."

The mass balance approach makes it possible to track the amount and sustainability characteristics of circular and/or bio-based content in the value chain and attribute it based on verifiable bookkeeping.

High resolution pictures are available for download on <http://finke-colors.eu/en/press/media-center/>



Using laser decoration in combination with FIBAFEKT semi-compounds abolishes the need for additional labels – a perfect design-for-recycling solution for mono-material packagings.

Source: Finke

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Coloring solution for products made from 100 % recycle: recycle based masterbatches from the FIBAREC series. Source: Finke



FIBAPLAST NIR detectable Black masterbatches for NIR-based polymer sorting and increased recyclability. Source: Finke



Finke has received ISCC Plus certification from ISCC (International Sustainability & Carbon Certification) in February 2022. 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, 50001, ISCC Plus and Ecovadis silver-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.