

A lush green forest with tall, straight tree trunks and a dirt path winding through them. The lower portion of the image is overlaid with a semi-transparent pattern of irregular, light-colored shapes, resembling a colloidal structure. In the upper right corner, a small molecular model is visible, consisting of several colored spheres (red, blue, purple, orange, green) connected by thin lines, representing a complex molecular structure.

COLLOIDS
THE MAKERS OF MASTERBATCH

D-K[®] MASTERBATCH



D-K® ENVIRONMENTAL MASTERBATCH

The **D-K®** brand has been developed as a result of Colloids commitment to environmental responsibility.

Colloids has invested a large amount of resource in the area of environmentally focussed materials. We have developed a range of products designed to help our customers meet the challenges of this continually evolving marketplace.

This range is marketed under the *D-K®* brand and includes a number of options:

- ***D-K® 100*** – a pro-degradant additive masterbatch designed to cause conventional polymers to degrade and disintegrate
- ***D-K® 200*** – coloured masterbatches based on biodegradable and compostable polymers designed for use in flexible applications
- ***D-K® 300*** – coloured masterbatches based on biodegradable and compostable polymers designed for use in rigid applications

Our research team is committed to continually developing novel technologies to support areas such as polymer recycling, energy recovery and responsible disposal.





D-K® 100

The ***D-K® 100*** range consists of pro-degradant additive masterbatches developed by Colloids. These products are designed to cause conventional polyolefins to degrade and disintegrate whilst having minimal effect on initial polymer properties and processing conditions.

D-K® 100 products are primarily intended for use in polyethylene film but can also be used in other polyolefin products. Ideally such products should be used in applications where the degradation properties give a functional benefit in the finished article. Such applications may include mulch film, rubbish bags, disposable packaging etc.

D-K® 100 formulations have European food contact approval and, if colour is required, should be used in conjunction with Colloids range of standard colour masterbatches for film and bespoke colours.



D-K® 200

Colloids ***D-K® 200*** and ***D-K® 300*** product ranges both consist of a selection of colours based on polymers which are biodegradable and compostable.

The ***D-K® 200*** range is designed to be used in flexible applications such as carrier bags and caddy bin liners. The ***D-K® 300*** range is designed for use in rigid applications such as food packaging and personal care products.

The two ranges are designed for use in compostable polymers with the same or similar composition to the masterbatch base. Both base polymers are certified EN 13432 ('Requirements of packaging recoverable through composting and biodegradation') and DIN CERTCO biodegradable and compostable when used at the designated thickness.

The pigments incorporated in the masterbatches have all been carefully selected to meet EN 13432 specified element levels in the final packaging.

For further technical information or samples please contact the Colloids Sales Office.

