

ecoflex® Batch AB1

Masterbatches with antiblocking agent for ecoflex® and ecovio®

® = Registered trademark of BASF SE

Product description

ecoflex® is our certified compostable, aliphatic-aromatic copolyester typically for film extrusion.

ecoflex® Batches are also based on ecoflex®, in order to have a biodegradable and compostable matrix for this special masterbatch. Masterbatches based on ecoflex® will enable you to qualify your application for certificates according to world wide existing standards.

Antiblocking agents are used to reduce the surface friction during film extrusion of ecoflex® and ecovio® in subsequent processes as printing or bag making. In any application we need to add a slip agent e.g. ecoflex® Batch SL1.

Antiblocking agents are characterized by the type and the top cut of the minerals in use:

Batch	Mineral	Content	Top Cut	Dosage
ecoflex® Batch AB1	Chalk	60 %	98 % < 12µm	1 - 10 %

The choice and dosage of the antiblocking agents depends on the requirements of the film.

ecoflex® Batch AB1 is our standard antiblocking agent. We recommend to use 4 % of AB1 for a standard film quality.

ecoflex® and ecovio® exhibits an excellent compatibility to other biodegradable polymers e.g. in dry blends with polylactic acid, biodegradable aliphatic polyesters or starch compounds. The processing of ecoflex® F Blend and ecovio® F Film on extrusion lines depends on the formulation, the extrusion technology and processing conditions (e.g. predrying). The additive system needs to be adapted to the composition of the blend and the requirements of the application. Therefore trials are always recommended to assess the quality of the final product.

Examples for different film formulations can be obtained from our ecoflex®, ecovio® brochure.

Food Regulatory Status

ecoflex® Batch AB1 can be used as a blend component for ecoflex® and ecovio® grades. Provided that ecoflex® Batch AB1 is used in amounts as specified in the food contact certificate or the technical information, the composition of the resulting blend complies with the requirements of the Commission Regulation (EU) No 10/2011 of 14 January 2011 on plastic materials and articles intended to come into contact with food as well as with the requirements of the Federal Food, Drug and Cosmetic Act, 21 CFR for the use in single-use polyester films, coatings, and molded articles. Specific limitations and further details concerning the food contact compliance status of this product can be obtained upon request via a local BASF representative or by contacting plastics.safety@basf.com. The suitability of the article for the application concerned must be ensured in each case by the person who places any finished food contact article on the market.

Form supplied and storage

ecoflex® antiblocking agents are supplied as pellets in 25 kg bags. Temperatures during transportation and storage may not exceed 70 °C at any time.

Quality Control

ecoflex® masterbatches are produced on state of the art compounding machines according to DIN EN ISO 9001. The additive and the moisture content have been defined as specified parameters for quality control of ecoflex® antiblocking agents. A certificate can be provided with each lot number upon request. Other data given in our literature are typical values, which are not part of our product specification for ecoflex® antiblocking agents.

Applications

ecoflex® and our ecovio® film products have been developed for the conversion to flexible films using a blown film or cast film process. Typical applications are packaging films, agricultural films and compost bags. In view of numerous factors influencing functionality and shelf life of ecoflex® or ecovio® films and finished articles made thereof these parameters have to be tested by the converters before utilisation.

We supply technical service information concerning the blown or cast film process with ecoflex®, ecovio® and ecoflex® masterbatches on demand.

Note

The information submitted in this document is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors of the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance for a special purposes. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed. (July 2021)