

## Biodegradable Polymers

### Product Information

**Version 1.0**

March 2023

G-PM/PB

# ecovio<sup>®</sup> F1280

## Biodegradable compound for cling film application

® = ecovio and ecoflex are registered trademarks of BASF SE

### Product Description

ecovio<sup>®</sup> F1280 is our new biodegradable film product for the cling film application. It is based on our biodegradable, aliphatic-aromatic copolyester grade ecoflex<sup>®</sup> F.

ecovio<sup>®</sup> F1280 is designed for 3-layer blown film extrusion (A/B/C) with ecoflex<sup>®</sup> F Blend C1200 as middle layer B and ecovio<sup>®</sup> F1280 in the outer layers A and C. The layer distribution is 25/50/25. To improve sliding properties an additional slip agent is required. ecovio<sup>®</sup> F1280 can be also used in mono blown film extrusion but for the European market only.

Our new ecovio® F1280 exhibits the following key properties:

- Designed for processing on 3-layer blown film lines with ecoflex® F Blend C1200 as middle layer and ecovio® F1280 in outer layers. The layer distribution is 25/50/25.
- Processability on conventional PE-LD blown film lines
- High melt strength
- Good thermostability up to 230 °C
- Down gauging to 10 µm possible
- Good anti-fogging properties
- Good mechanical properties
- Good cling properties
- Improved transparency
- Wet strength

The processing of ecovio® F1280 on extrusion lines depends on the formulation, the extrusion technology and processing conditions. Trials are always recommended to assess the quality of the final product. ecoflex® masterbatches are needed to tailor the properties of the final product. Detailed information concerning our ecoflex® masterbatches will be sent on request. According to our experience pre-drying of ecovio® F1280 is not required if the granules are taken from an unopened bag.

**Certification of Compostability and Biodegradability**

ecovio® F1280 is certified for mono-film for the European market. In North America & Canada it is certified as part of the above mentioned 3-layer-solution ecovio® Cling Film.



Certification body	Vinçotte	
Norm/Certification scheme	OK Compost (EN 13432)	OK Compost Home
Certification Number	TA8011802774	TA8021802978

**Food Contact Regulation**

Food contact certificates for ecoflex® and ecovio® grades including information about specific limitations and details concerning the food contact status for different regions can be obtained upon request via a local BASF representative or by contacting [plastics.safety@basf.com](mailto: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**

ecovio® F1280 is supplied as strand pellets in 25kg sacks and 1 t big bags. Temperatures during transportation and storage may not exceed 60 °C at any time. Storage time of unopened bags may not surpass 12 months at room temperature (23 °C).

Quality Control

ecovio® F1280 is produced as a standard material in a continuous production process according to DIN EN ISO 9001. The melt volume rate, MVR, at 190 °C, 2,16 kg, according to ISO 1133 has been defined as specified parameter for quality control. The ecovio® granules have to be pre-dried (6 hours at 70 °C) before MVR measurement in order to obtain accurate values. Other data given in our literature are typical values, which are not part of our product specification for ecovio® F1280.

Applications

ecovio® F1280 is designed for 3-layer blown film extrusion (A/B/C) with ecoflex® F Blend C1200 as middle layer B and ecovio® F1280 in the outer layers A and C. The layer distribution is 25/50/25. To improve sliding properties an additional slip agent is required. This multilayer solution is referred to as ecovio® Cling Film.

In view of numerous factors influencing functionality and shelf life of ecovio® films and finished articles made thereof the production parameters have to be tested by the converters before utilisation. Additionally, sufficient field tests are required to ensure the right functionality of the articles made from ecovio® F1280.

We supply technical service information concerning the blown film process with ecovio® F1280 on demand.

Typical basic material properties of ecovio® F1280

Property	Unit	Test Method	ecovio® F1280
Melt volume rate MVR 190 °C, 2,16 kg	ml/10 min.	ISO 1133	2.0-6.0

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 purpose. 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. (March 2023)