

# Bio dolomer

*Biodegradable Polymers*

**Product Information**

*Version 1.2 September 2018*

## *Biodolomer® Vapour*

® = Biodolomer is a registered trademark of GAIA

### **Product Description**

Biodolomer® Vapour is a biodegradable biomaterial.

Biodolomer® Vapour contain renewable resources.

Biodolomer® Vapour is optimized for thin film and cast film applications where breathability is a desirable property.

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Biodolomer® Vapour exhibits the following properties:

- Excellent process-ability on conventional process lines
- Down gauging to 10 µm possible, typical thicknesses: 15 -120 µm
- Good mechanical properties
- Breathability
- Excellent welding properties
- Ready to use grade
- Decor printable by flexo printing. No corona treatment needed.
- Contains renewable resources

### **Certification of Compostability and Biodegradability**

Biodolomer® Vapour fulfills the requirements of the existing standards for compostable and biodegradable polymers, because it is degraded by microorganisms. Biodolomer® create no micro plastics. The biodegradation process in soil depends on the specific environment (climate, soil quality, population of microorganisms).

### **Food Regulatory Status**

Biodolomer® Vapour is one of the few compostable polymers, which complies in its composition with the European food stuff legislation for food contact, EU Directive 10 / 2011 / EC with amendment 2016/1416 and US food contact notification for the main components: e. g. FCN 178, 475 and 907. Specific limitations and more details are given on request.

### **Form Supplied and Storage**

Biodolomer® Vapour is supplied as lenticular pellets in 1 t big bags. Storage time of unopened bags atleast 12 month at room temperature (23 °C).

### **Applications**

Biodolomer® Vapour has been developed for conversion on blown film, cast film and lamination processes.

Biodolomer® Vapour may be used as a breathable laminating layer in non woven, and other structures, for hygiene and medical applications.

**Basmaterialegenskaper  
för Biodolomer® Vapour**

\* see Quality Control

| Property              | Unit                | Test Method   | Biodolomer®<br>Vapour |
|-----------------------|---------------------|---------------|-----------------------|
| Mass Density          | g/cm <sup>3</sup>   | ISO 1183      | 1.28 ~ 1.45           |
| Bulk Density          | kg / m <sup>3</sup> | DIN EN ISO 60 | 800                   |
| MFI190 °C, 2.16<br>kg | g/10min.            | ISO 1133      | 2                     |
| Melting Points        | °C                  | DSC           | 110 - 120             |

**Water Vapour Transmission Rate  
Biodolomer® Vapour @ 15 µm**

| Property | Unit                                     | Test Method | Biodolomer®<br>Vapour |
|----------|--|-------------|-----------------------|
| WVTR     | g.m <sup>2</sup> .24h@760mm<br>Hg&37.8°C | ASTM D6701  | 1213                  |

6 tests were made. Range 1183 – 1240 g

Avg. **1213 g** / sq.meter / 24 h / 37.8 degrees C / 760 mm Hg Barometer

More details are given on request.

**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.

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