

# Mowital® G

## Technical Data Sheet

### Characteristics

Granulated polyvinyl butyral (PVB) grades with different molecular weights and degrees of acetalisation.

### Recommended uses

**Mowital® G** is optimised for thermoplastic processing like extrusion, compounding, injection molding or blow molding, blown and cast films, melt spinning and more.

### Form supplied

Pellets.

### Specification data

The data are determined by our quality control for each lot prior to release.

Grade	Non-volatile content <sup>1</sup>	Content of polyvinyl alcohol <sup>2</sup>	Content of polyvinyl acetate <sup>3</sup>
	wt-%	wt-%	wt-%
<b>Mowital® G 13</b>	≥ 99,5	24–27	1–4
<b>Mowital® G 16</b>	≥ 99,5	24–27	1–4
<b>Mowital® G 36</b>	≥ 99,5	18–21	1–4

1) Kuraray method ref. DIN EN ISO 3251:2019-09

2) Kuraray method ref. DIN EN ISO 4629-1:2016-12

3) Kuraray method ref. DIN EN ISO 3681:2019-03

### Additional data

These data are used solely to describe the product. They are not subject to constant monitoring or part of the specification.

### Glass transition temperature

The glass transition temperature is determined according to the following standard:

DIN EN ISO 11357-1:2017-02 and applying DSC method. The **Mowital® G** grades have average values in a range of 70–72 °C.

### Moisture absorption

Moisture absorption is determined according to the Kuraray method following standard:

DIN EN ISO 3251:2019-09. When applying the standard climate (23 °C / 50 % r. h.), the **Mowital® G** grades show values in an average range of 0,9–1,4 %.

### Bulk density

The bulk density is determined according to the Kuraray method, which refers to DIN EN ISO 60:2000-01.

The **Mowital® G** grades have average values in a range of 600–750 g/l.

### Melt flow rate

The melt flow rate (190 °C, 2,16 kg) is determined according to the Kuraray method, which refers to

DIN EN ISO 1133-1:2022. The **Mowital® G** grades have the following range of average values

G 13: 18–22 g/10 min, G 16: 3,2–4,0 g/10 min, G 36: 0,8–1,2 g/10 min.

**Processing**

**Mowital**® G can be used on commercial standard extruders for the processing of polyolefins. Melt temperature during extrusion should not exceed 250 °C because at higher temperatures the material will suffer from thermal degradation, recognisable by yellow discoloration, dark color gels and an increase in melt pressure and torque.

**Storage**

**Mowital**® G grades can be stored in its original packaging under dry and cool conditions for at least 12 months after delivery date.

**Food contact status**

The use of **Mowital**® is sanctioned by: The (EU) regulation 1935/2004 and No. 10/2011 – all monomers and starting sub-stances authorised by listing in Annex I.

As well as Council of Europe, Resolution AP 96(5) on surface coatings intended to come into contact with foodstuffs – all monomers and starting substances authorised by listing in appendix 2, list 1. US Food and Drug Administration 21CFR § 175.105 Adhesives, § 175.300 Resinous and polymeric coatings, § 176.170 Components of paper and paperboard in contact with aqueous and fatty foods, § 176.180 Components of paper and paperboard in contact with dry food.

**Industrial safety and environmental protection**

Not classified as a dangerous substance or preparation according to the current criteria of chemical legislation, or of the CLP regulation EU Directives (1272/2008).

A safety data sheet is available on our homepage [www.mowital.com](http://www.mowital.com) and is updated on a regular base.

**Waste disposal**

In accordance with current regulations and/or after consultation with site operator and/or with the responsible authorities **Mowital**® may be taken to waste disposal sites or incineration plants.

This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should therefore not be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products is subject to our General Conditions of Sale. June 2022

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