



Document	ISO Datasheet
Description	BioComp
Grade	IM 23068
Code	1N0011
Application	Injection Molding

BioComp® IM 23068 is an innovative thermoplastic compound. It is made with components natural in origin utilizing biodegradable polymers obtained from both renewable materials and fossil fuel. Biodegradability and compostability of BioComp® is unchanged using plasticizers and the addition of organic and inorganic charges.

Regulation Compliance

Compostability and Biodegradability:

Certification Body

Method

Certification Number

TÜV AUSTRIA BELGIUM NV

OK Compost
Industrial (EN13432)

TA 8011802878



Food contact status:

Food

Properties

Method

Unit

Value

Physical

Melt Flow Rate (190°C - 2,16 Kg)

ISO 1133

g/10'

23

Density at 23°C

ISO 1183

g/cm3

1,45

Moisture (%) (100°C)

INTERNAL

%

0,1

Mold Shrinkage

ASTM D955

%

0,1 - 0,5

Thermal

HDT, B (0,45 MPa)

ISO 75 - 1

°C

50

Mechanical at 23° C

Young modulus (23°C; 50mm/min)

ISO 527 - 2

MPa

8145

Tensile Stress at break (23°C; 50mm/min)

ISO 527 - 2

MPa

145

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Tensile elong.at break (23°C;50mm/min)	ISO 527 - 2	MPa	2
Flexural Modulus (23°C;50mm/min)	ISO 178	MPa	7490
Flexural strength (23°C;50mm/min)	ISO 178	MPa	86
Izod notched impact strength (23°C)	ISO 180	KJ/m ²	3
Charpy unnotched impact strength (23°C)	ISO 179	KJ/m ²	19
Charpy notched impact strength (23°C)	ISO 179	KJ/m ²	2

Processing Conditions

Temperature Profile	Unit	Value
Feed zone	°C	160 – 190
Melt zone	°C	160 – 190
Die zone	°C	160 – 190
Maximum temperature	°C	210
Drying Temperature	°C	80
Drying Time	Hour	4

Technical documents

Material safety datasheet:

<http://www.sirmax.it/sites/default/files/BIOCOMP%C2%AE%20MSDS.pdf>

Disclaimer

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