



## **TESTS REPORT**

### **XP CEN/TS 14243 (June 2010)**

**Materials produced from end of life tyres – Specification of categories based on their dimensions and impurities and methods for determining their dimensions and impurities**

# **RUBBER GRANULE GBTA 100825**

# **BIOGOMA**

**LABORATORY TEST REPORT N° R181228-B1**

**LE MANS, 04/10/2018**

This report is composed of 3 pages and 1 appendix.

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The results are valid only for the tested samples. Complete results available on request.

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## 1 ■ CLIENT DETAILS

Company : BIOGAMA  
COVAO DO BREJO  
2025 TREMEZ  
PORTUGAL

Date of order: 03/08/2018

Reception date: 03/09/2018

Sample reference: 024605 - **GBTA 100825**

## 2 ■ TESTS PROGRAM

**LABOSPORT France** has been commissioned by **BIOGOMA** to carry out the following laboratory tests on rubber granules **GBTA 100825** primarily designed for synthetic turf infill:

- Identification with particle size, shape and bulk density
- Measurement of textile fibre, metal and other impurities according to:
  - **XP CEN/TS 14243** (Materials produced from end of life tyres – Specification of categories based on their dimensions and impurities and methods for determining their dimensions and impurities)

## 3 ■ RESULTS

### ❖ Identification of the rubber granule GBTA 100825:

Properties	Method	Unit	Results	NF P 90-112* requirements
Particle size	EN 933-1	mm	0.63 – 2.0	d ≥ 0.5 mm D ≤ 3.15 mm
Particle shape	EN 14955	-	Angular – A2	-
Bulk density	EN 1097-3	g/cm <sup>3</sup>	0.45	-

\* The requirement of the NF P 90-112 (2016) standard are given only for information.

➔ Picture and particle size curve of the tested sample are in Annex of this report.

❖ **Measurement of fibre rate, metal rate and other impurities in %:**

Element	Method	Units	Results
Fibre rate	XP CEN/TS 14243	(%) (g)	0 <sup>(1)</sup> 0 (done on a mass of 201.8g)
Metal rate	XP CEN/TS 14243	(%) (g)	0 0 (done on a mass of 511.01g) <sup>(2)</sup>
Impurities rate (glass, sand or non-magnetic metal etc.)	XP CEN/TS 14243	(%) (g)	0 0 (done on a mass of 152.3g) <sup>(3)</sup>

- (1) The Annex C of the XP CEN/TS 14243 standard defines that textile fibre integrated inside rubber grains are not considered on the result. At least 150g of sample mass is necessary to conduct the test.
- (2) The Annex B of the XP CEN/TS 14243 standard defines the test has to be conducted with a sample mass close as possible to 500g.
- (3) According to Annex D of the XP CEN/TS 14243 standard, on the mass (about 500g) used for the determination of the metal rate (%), a mass of about 150g is taken to determine the impurities rate.

#### 4 ■ CONCLUSION

The tested sample "Rubber infill **GBTA 100825**" do not present metal, fibre and other impurities according to the test method of **XP CEN/TS 14243** standard (Materials produced from end of life tyres – Specification of categories based on their dimensions and impurities and methods for determining their dimensions and impurities).

Le Mans, 04/10/2018



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**ANNEX 1 : RUBBER GRANULE GBTA 100825**

Picture

General View



Microscope view



Particle Size curve

