



Muslin hop boiling bags

We, **Brouwland**, Korpelsesteenweg 86, 3581 Beverlo, Belgium, declare that the following product, made of polyester-cotton yarn:

053.270.5 muslin hop boiling bags

053.271.3 muslin hop boiling bags

Is in conformity with **the following European Legislation:**

The overall migration has been performed according to rules as laid down in Commission Regulation (EU) No 10/2011 (and amendments) relating to plastic materials and articles intended to come into contact with food.

The report, the tests described and the conditions used to obtain the results presented are based on the following legislation :

- Commodity Act Packaging and Food Utensils Regulation of The Netherlands including its amendments up to and including VGP-328583-117560 of March 14, 2014.
- Commission Regulation (EU) No. 10/2011 on plastic materials and articles intended to come into contact with food, up to and including amendment (EU) no 2015/174.
- Framework Regulation (EC) No 1935/2004 of October 27, 2004

Test methods as described in:

- EN 1186-1; *Guide to the selection of conditions and test methods for overall migration.*
- EN 1186-3; *Test methods for overall migration into aqueous food simulants by total immersion.*
- EN 1186-14; *Test method for substitute test for overall migration into iso-octane and 95% aqueous ethanol.*

The samples are placed in contact with the food simulants and at the testing conditions as mentioned in table 1. The methods described in this section are chosen based on the requested tests at the conditions of contact as were selected by the client.

Table 1: Test conditions Overall migration

Sample	Simulants	Test conditions
1. Cotton	Water	10 days at 20 °C by total immersion
2. Polyester	95% ethanol	10 days at 20 °C by total immersion
	Iso-octane	1 day at 20 °C by total immersion

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Table 2: results

Sample	Simulant	Overall migration (mg / g sample)			average	Overall migration (mg/kg food) Limit
		Meas. 1	Meas. 2	Meas. 3		
Cotton	water	13.3	12.1	11.3	12.4	60 (a)
	95% ethanol	6.3	6.4	6.5	6.4	60 (a)
	Iso-octane	2.9	2.9	2.9	2.9	60 (a)
Polyester	water	34.5	37.3	36.9	36.2	60 (b)
	95% ethanol	36.1	34.5	35.2	35.2	60 (b)
	Iso-octane	30.1	31.6	33.3	31.2	60 (b)

(a) An overall migration of 12.4 mg/g sample indicates that at least 0.2 kg foodstuff has to be packed in 1 gram of sample cotton not exceeding the limit of 60 mg/kg foodstuff.

(b) An overall migration of 36.2 mg/g sample indicates that at least 0.6 kg foodstuff has to be packed in 1 gram of sample polyester not exceeding the limit of 60 mg/kg foodstuff.

Conclusion:

These cotton-yarn muslin hop boiling bags comply with the above mentioned Regulations. The overall migration values are below the migration limits.

The articles are intended to come into contact with foodstuffs.

Version 2 - 31/05/2017

Signed and dated, Beverlo, 31/05/2017,

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