



Client:

S.D.S. Srl

Via Campo dei Fiori, 13

20010 Vittuone (MI)

Test Report nr. 840-1/17 Rev. 1

Date: April 12th, 2018

Subject: Compliance to the requirements established by regulation in force at European level and national level Reg. (EC) N. 1935/2004, Reg. (EU) N.10/2011 and subsequent updates and DM 21.3.73 of "POLIBOX ® isothermal containers" regarding overall migration into food simulants.

According to your e-mail of November 22nd, constituting acceptance of our analytical proposal Offer Nr. 2017-S.D.S. srl -OF-603-21-11-2017 and reiterated in the relative Order Confirmation n. 840/17 of 1/12, we proceeded to perform the analytical activities agreed on the samples in question.

The analyses were performed by Pack Co. staff.

Below, after the section CONCLUSIONS, the results of the performed checks are reported.



CONCLUSIONS

"POLIBOX ® isothermal containers" are in compliance with national and European regulations, DM 21.3.73 and subsequent updates and amendments, REG. (EU) N. 10/2011 and subsequent updates and amendments as well as the REG. (EC) N. 1935/2004 on the basis of the results of the analyses performed into simulants B, D1, and with the isooctane simulant (alternative to simulant D2).

GENERAL DATA

- Sample arrival date: November 22nd, 2017
- Analyses start date: December 01st, 2017
- Analyses end date: December 06th, 2017

- Deviation from the agreed procedures: NO

SAMPLING

The initial sampling was performed by the client.

For the execution of the test in the simulants B and D1, specimens were obtained with a total surface area of about ~ 0.95 dm² through cold cut in number appropriate to the test procedures adopted.

For the execution of the test in the isooctane simulant (alternative to D2), three uncovered lids were used, in a number suitable for the test procedures adopted.

DECLARATION

Following the modification of the analytical plan as request by the client, this test report constitutes Revision 1 of the Test Report no. 840-1 / 17 of December 28th, 2017.

The test results relate only to the items tested.

The report shall not be partially reproduced without the written approval of the testing laboratory.

SAMPLE DESCRIPTION

Your products in PPE called "POLIBOX ® isothermal containers"

DETERMINATION AND TEST METHODS

COMPLIANCE FOR FOOD CONTACT MATERIALS ACCORDING TO THE Italian Decree of 21.3.73 S.O. GU n° 104 of 20/04/73, Reg. (CE) N. 1935/2004 GUCE L 338 of 13/11/04, Reg. (UE) N. 10/2011 GUCE L 12 of 15/01/01, Reg. (UE) N. 1282/2011 GUCE L 328/22 of 10/12/2011, Reg. (UE) N. 1183/2012 GUCE L 338/13 of 12/12/2012; Reg. (UE) N. 202/2014 GUCE L 62 of 4/3/2014; Reg. (UE) 2015/174 GUCE L 30/2 of 05/02/2015, Reg. (UE) 2016/1416 GU L 230 of 25/08/2016, Reg. (UE) 2017/752 GU L 113 of 28/04/2017, Reg. (UE) 2018/79 GU L 14 of 19/01/2018.

1. Overall Migration

Method: DM del 21/3/73 SO GU n° 104 of 20/04/73 (All IV Sez. 1) + Reg. (EU) n. 10/2011 GUUE L 12 of 15/01/2011 (All V) + Reg. (UE) 2016/1416 GUUE L 230 of 22/08/2016 + Reg. (UE) 2017/752 GUUE L 113 of 29/04/2017 + UNI EN 1186-1:2003 + UNI EN 1186-2:2003.

Simulant	Contact conditions	Contact mode	LOQ
B - Acetic acid 3% (w/v)	4 hours at 100 °C	TOTAL IMMERSION	1 mg/dm ²
D1 - Ethyl alcohol 50% (v/v)	4 hours at reflux	TOTAL IMMERSION	1 mg/dm ²

CONTACT SURFACE ~ 0.95 dm² (parallelepiped samples)
SIMULANT VOLUME = 100 mL

Simulant	Contact conditions	Contact mode	LOQ
Isooctane - (alternative to D2)	3 hours at 60 °C (*)	PARTIAL IMMERSION	1 mg/dm ²

CONTACT SURFACE ~ 5.6 dm²
SIMULTANT VOLUME = 300 mL

(*) contact condition equivalent to 100 °C for 4 hours in vegetable oil.

RESULTS

1. Overall Migration

Your products in PPE called "POLIBOX ® isothermal containers"			
Simulant: B - Acetic acid 3% (w/v)			
Contact conditions: 4 hours at 100 °C			
Unit of measure: mg/dm²			
Determined value	Average value	Uncertainty	Limit value (Reg. (EU) N. 10/2011)
5.2	5.1	0.2	10±2
5.2			
5.0			

Your products in PPE called "POLIBOX ® isothermal containers"			
Simulant: D1 - Ethyl alcohol 50% (v/v)			
Contact conditions: 4 hours at reflux			
Unit of measure: mg/dm²			
Determined value	Average value	Uncertainty	Limit value (Reg. (EU) N. 10/2011)
2.7	2.5	0.4	10±2
2.3			
2.5			

Your products in PPE called "POLIBOX ® isothermal containers"			
Simulant: Isooctane - (alternative to D2)			
Contact conditions: 3 hours at 60°C			
Unit of measure: mg/dm²			
Determined value	Average value	Uncertainty	Limit value (Reg. (EU) N. 10/2011)
2.7	2.4	0.5	10±2
2.2			
2.2			

END OF TEST REPORT

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