



## TEST REPORT

Reference No. : SZ2017040826-1E

Date : May. 12, 2017

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Client : Paul Stricker SA

Address : N.I. Murtede, It5 - 3060-372 Murtede - Portugal

The following merchandise was (were) submitted and identified by the client as:

Name of Product : Aluminium sheet covered with PEVA or non-woven

Test Model : 98412, 98407

Model May Cover : /

Sample Received : Apr. 27, 2017

Test Period : Apr. 27, 2017 - May. 12, 2017

As requested by the client, according to Commission Regulation (EU) No 10/2011 and its subsequent amendment Regulation EU No.1282/2011, 1183/2012, 202/2014 and Regulation (EU) 2016/1416 on plastic materials and articles intended to come into contact with foodstuffs, General Requirement(Article 3) in EU Regulation No. 1935/2004 to do the following test items:

Test Items:

1. Overall Migration test for Plastic
2. Soluble Heavy Metals for Plastic
3. Specific Migration of PAA for Plastic

4. Phthalate content according to REACH Annex XVII (entry 51&52)

Conclusion:

PASS

PASS

PASS

PASS

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## TEST RESULTS:

### 1. Overall migration test

**Test Method:** With reference to EN1186-1:2002 for selection of conditions and test methods

EN1186-13:2002 aqueous food simulants by article filling method;

Test Item	Test condition	Test Result (mg/dm <sup>2</sup> )	Maximum Permissible Limit (mg/dm <sup>2</sup> )
		1#	
Surface area(dm <sup>2</sup> )/Quality(g)	/	1/4	/
Poly(2,6-diphenyl-p-phenylene oxide)	2 hours, 70°C	<3.0	10

**Remark:** Report the third extractive results.

### 2. Soluble Heavy Metals

**Test Method:** Sample preparation in 3% Acetic acid at 40°C for 24 hours, followed by analysis using Inductively Coupled Argon Plasma Spectrometer.

Test Item	Result (mg/kg)	Maximum Permissible Limit (mg/kg)
	1#	
Surface area(dm <sup>2</sup> )/Volume(ml)	1/167	/
Soluble Barium	<0.01	1
Soluble Cobalt	<0.01	0.05
Soluble Copper	<0.01	5
Soluble Iron	<0.01	48
Soluble Lithium	<0.01	0.6
Soluble Manganese	<0.01	0.6
Soluble Zinc	<0.01	5
Soluble Aluminum	<0.01	1

**Remark:** Report the third extractive results.

### 3. Specific Migration of PAA

**Test Method:** Sample preparation with reference to EN 13130-1: 2004 with selection of stimulant and condition, followed by analysis by GC/MS.

Test Items	Test Result (mg/kg)	Maximum Permissible Limit (mg/kg)
	1#	
Surface area(dm <sup>2</sup> )/Volume(ml)	1/167	/
Specific migration of PAA in 3% acetic acid at 40°C, 24 hours	<0.01	0.01

\*\*\*\*\* To be continued \*\*\*\*\*

## 4. Phthalates Content<sup>△</sup>

**Test Method:** With reference to EPA3550C-2007&EPA8270D-2007, Analysis was performed by GC-MS.

(4-1) For all toys and childcare articles

Test Item(s)	Unit	MDL	Test Results	Limited Value*
			1#	
Dibutyl Phthalate((DBP)	%	0.005	N.D.	---
Benzylbutyl Phthalate(BBP)		0.005	N.D.	---
Di-(2-ethylhexyl)Phthalate(DEHP)		0.005	0.015	---
Total (DBP+BBP+DEHP)		---	0.015	≤ 0.1

(4-2) For toys and childcare articles that can be mouthed

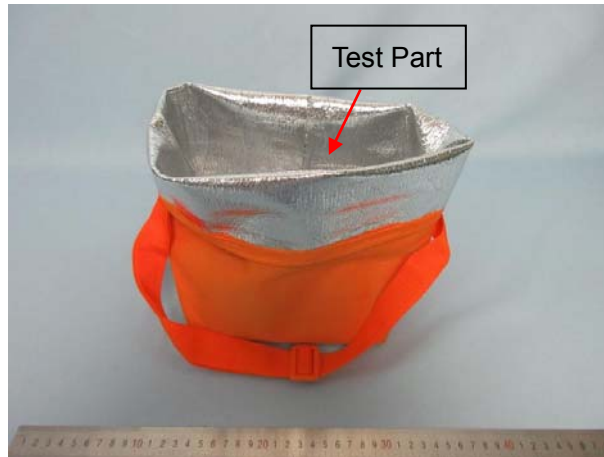
Test Item(s)	Unit	MDL	Test Results	Limited Value*
			1#	
Di-iso-nonylphthalate(DINP)	%	0.010	N.D.	---
Di-n-octylphthalate(DNOP)		0.005	N.D.	---
Di-iso-decylphthalate(DIDP)		0.010	N.D.	---
Total (DINP+DNOP+DIDP)		---	< 0.025	≤ 0.1

**Remark:** \* The Limited value is based on REACH Annex XVII (entry 51&52).

- Note :**
- 1) MDL = Method Detection Limit.
  - 2) N.D. = Not detected, less than MDL.
  - 3) “---” = Not Regulated.
  - 4) % = Percentage by weight.
  - 5) <sup>△</sup>The test was conducted from the rest sample, and the test period was May. 10, 2017 - May. 12, 2017

### Test Part Description:

1# Transparent plastic film

**SAMPLE PHOTO**

1#

**REFERENCE PHOTOS****\*\*\*\*\* END OF REPORT \*\*\*\*\***