SGS

INSTITUT FRESENIUS

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Latex Occidental
Exportadora, S.A. de C.V.
Mrs. Barbara Bernal
Calz. Glez. Gallo 2290
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Consumer and Retail
Non Food

Taunusstein, 07/09/2016

Test-report no. 3071021
Test-report version < 1 >

Original Sample ID	Sample Description	Sample Receipt Date
160855925	sample (1) 100/9 PS & DC transparent, white, yellow, orange, red, pink, dark violet, dark blue, dark green, black	19/08/2016

General Information

SGS-Client´s ID	:	10019242
SGS-Customer-Order	:	3855160
Ordering date	:	16/08/2016
Testing period	:	26/08/2016 – 31/08/2016; 01/09/2016 – 07/09/2016
Order No.	:	Folio 44
Testing scope	:	Test according to client's requirements

Assessment

Overall assessment	**Pass**
The samples meet the requirements of EN 71-3:2014.	

SGS INSTITUT FRESENIUS GmbH

i. V. Gabriele Göttsch
Project Manager

i. A. Alena Knauz
Project Manager

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Summary of results

Test	Result
Migration of certain elements DIN EN 71-3	Pass
Chromium VI acc. to DIN EN 71-3	Pass

Note: Conclusions on pass/fail are based on the test result from the actual sampling of the received sample(s).

Conclusions are based on the relevant requirements; measurement uncertainties are not taken into account. Only results above the relevant detection limit are taken into account for the calculation of sums.

Test was conducted on composite of random parts of the item as per client's request and the test result is the overall result.

The composite sampling method is based on the client's special request and could be a modification from the testing standard.

For 2-composite mix with results exceeding one half of the relevant requirements or 3-composite mix with results exceeding one third of the relevant requirements, the composite sample may have the possibility of one or more components that can lead to a failure result, it is recommended to test on individual basis.

Photo documentation

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List of sample parts

Comp. no	Component-ID	Sample-Description			Original Sample ID
1	160869397	balloons	latex	transparent	160855925
2	160869398	balloons	latex	white	160855925
3	160869399	balloons	latex	yellow	160855925
4	160869400	balloons	latex	orange	160855925
5	160869901	balloons	latex	pink	160855925
6	160869902	balloons	latex	red	160855925
7	160869903	balloons	latex	dark violet	160855925
8	160869904	balloons	latex	blue	160855925
9	160869905	balloons	latex	green	160855925
10	160869906	balloons	latex	black	160855925

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Analytical results

Migration of certain elements

Test Method
DIN EN 71 3:2013-05 + A1:2014, - Analysis was conducted by Inductively Coupled Argon Plasma Spectrometry.

Subsample(s)	Unit	Result 1	Result 2	Result 3
Aluminum (Al)	mg/kg	< 10	12	< 10
Antimony (Sb)	mg/kg	< 10	< 10	< 10
Arsenic (As)	mg/kg	< 1.0	< 1.0	< 1.0
Boron (B)	mg/kg	< 10	< 10	< 10
Barium (Ba)	mg/kg	< 10	< 10	< 10
Cadmium (Cd)	mg/kg	< 1.0	< 1.0	< 1.0
Cobalt (Co)	mg/kg	< 10	< 10	< 10
Chromium (Cr), total	mg/kg	0.360*	0.350*	0.260*
Copper (Cu)	mg/kg	< 10	< 10	< 10
Manganese (Mn)	mg/kg	< 10	< 10	< 10
Nickel (Ni)	mg/kg	< 10	< 10	< 10
Lead (Pb) [1]	mg/kg	< 10	< 10	< 10
Selenium (Se)	mg/kg	< 10	< 10	< 10
Tin (Sn)	mg/kg	< 1.0	< 1.0	< 1.0
Strontium (Sr)	mg/kg	< 10	< 10	< 10
Zinc (Zn)	mg/kg	260	240	230
Mercury (Hg)	mg/kg	< 1.0	< 1.0	< 1.0
Conclusion		Pass	Pass	Pass

Subsample(s)	Unit	Result 4	Result 5	Result 6
Aluminum (Al)	mg/kg	< 10	< 10	< 10
Antimony (Sb)	mg/kg	< 10	< 10	< 10
Arsenic (As)	mg/kg	< 1.0	< 1.0	< 1.0
Boron (B)	mg/kg	< 10	< 10	< 10
Barium (Ba)	mg/kg	< 10	< 10	< 10
Cadmium (Cd)	mg/kg	< 1.0	< 1.0	< 1.0
Cobalt (Co)	mg/kg	< 10	< 10	< 10
Chromium (Cr), total	mg/kg	0.270*	0.250*	0.200
Copper (Cu)	mg/kg	< 10	< 10	< 10
Manganese (Mn)	mg/kg	< 10	< 10	< 10
Nickel (Ni)	mg/kg	< 10	< 10	< 10
Lead (Pb) [1]	mg/kg	< 10	< 10	< 10
Selenium (Se)	mg/kg	< 10	< 10	< 10
Tin (Sn)	mg/kg	< 1.0	< 1.0	< 1.0
Strontium (Sr)	mg/kg	< 10	< 10	< 10
Zinc (Zn)	mg/kg	230	300	220
Mercury (Hg)	mg/kg	< 1.0	< 1.0	< 1.0
Conclusion		Pass	Pass	Pass

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The analytical findings are only valid for the sample as analyzed. Written acknowledgement for publication and duplication of our analytical reports for promotional purpose, as well as fractional use for other purposes mandatory. Electronically submitted results are for your information only. For legally binding results refer to the originally signed analytical report. Numbers following „<" represent limits of quantification. Determination of parameters marked with * was performed with a cooperation partner. Please note that the analysis was fully or partially conducted at the laboratory facilities of Institut Fresenius which are accredited according to DIN EN ISO/IEC 17025. These laboratory facilities are not explicitly accounted as GMP-areas.

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Subsample(s)	Unit	Result 7	Result 8	Result 9
Aluminum (Al)	mg/kg	< 10	11	13
Antimony (Sb)	mg/kg	< 10	< 10	< 10
Arsenic (As)	mg/kg	< 1.0	< 1.0	< 1.0
Boron (B)	mg/kg	< 10	< 10	< 10
Barium (Ba)	mg/kg	< 10	< 10	< 10
Cadmium (Cd)	mg/kg	< 1.0	< 1.0	< 1.0
Cobalt (Co)	mg/kg	< 10	< 10	< 10
Chromium (Cr), total	mg/kg	0.240*	< 0.200	< 0.200
Copper (Cu)	mg/kg	< 10	< 10	< 10
Manganese (Mn)	mg/kg	< 10	< 10	< 10
Nickel (Ni)	mg/kg	< 10	< 10	< 10
Lead (Pb) [1]	mg/kg	< 10	< 10	< 10
Selenium (Se)	mg/kg	< 10	< 10	< 10
Tin (Sn)	mg/kg	< 1.0	< 1.0	< 1.0
Strontium (Sr)	mg/kg	< 10	< 10	< 10
Zinc (Zn)	mg/kg	360	290	250
Mercury (Hg)	mg/kg	< 1.0	< 1.0	< 1.0
Conclusion		Pass	Pass	Pass

Subsample(s)	Unit	Result 10
Aluminum (Al)	mg/kg	< 10
Antimony (Sb)	mg/kg	< 10
Arsenic (As)	mg/kg	< 1.0
Boron (B)	mg/kg	< 10
Barium (Ba)	mg/kg	< 10
Cadmium (Cd)	mg/kg	< 1.0
Cobalt (Co)	mg/kg	< 10
Chromium (Cr), total	mg/kg	< 0.200
Copper (Cu)	mg/kg	< 10
Manganese (Mn)	mg/kg	< 10
Nickel (Ni)	mg/kg	< 10
Lead (Pb) [1]	mg/kg	< 10
Selenium (Se)	mg/kg	< 10
Tin (Sn)	mg/kg	< 1.0
Strontium (Sr)	mg/kg	< 10
Zinc (Zn)	mg/kg	230
Mercury (Hg)	mg/kg	< 1.0
Conclusion		Pass

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Re-test

Chromium VI acc. to DIN EN 71-3

Test Method
DIN EN 71 3:2013-07, - Measurement by ion chromatography with post-column-derivatization with diphenylcarbazide.

Subsample(s)	Unit	Result 1	Result 2	Result 3
Chromium VI (CrVI)	mg/kg	< 0.20	< 0.20	< 0.20
Conclusion		Pass	Pass	Pass

Subsample(s)	Unit	Result 4	Result 5	Result 7
Chromium VI (CrVI)	mg/kg	< 0.20	< 0.20	< 0.20
Conclusion		Pass	Pass	Pass

Note:

* pass together with determination of chromium VI
(Requirement chromium VI: not more than 0.2 mg/kg)

Requirement: Limits according to DIN EN 71-3:2013

parameter	unit	limit category 3
Aluminium (Al)	mg/kg	70000
Antimony (Sb)	mg/kg	560
Arsenic (As)	mg/kg	47
Bor (B)	mg/kg	15000
Barium (Ba)	mg/kg	18750
Cadmium (Cd)	mg/kg	17
Cobalt (Co)	mg/kg	130
Chromium III (CrIII)	mg/kg	460
Chromium VI (CrVI)	mg/kg	0.2
Copper (Cu)	mg/kg	7700
Manganese (Mn)	mg/kg	15000
Nickel (Ni)	mg/kg	930
Lead (Pb)[1]	mg/kg	160
Selen (Se)	mg/kg	460
Tin (Sn)	mg/kg	180000
organo tin	mg/kg	12
Strontium (Sr)	mg/kg	56000
Zinc (Zn)	mg/kg	46000
Mercury (Hg)	mg/kg	94

*** End of test report ***