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Report date 22.07.2014
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Analytical report AR-14-JR-011122-02

This report will replace report number: AR-14-JR-011122-01



Sample Code 799-2014-00031709

Reference Number	3A PVC Color (FOREX color, Foamalite color)
Ordered by	Herr Peter Keller
Submitted by	Herr Peter Keller
Reception date time	21.05.2014
Start/end of analyses	21.05.2014 / 04.07.2014

TEST RESULTS

Physical-chemical Analysis

JR0EP EN 71 Part 3: Migration of certain 19 elements (#)

Method: EN 71-3:2013, Safety of Toys - Migration of certain Elements
Migration of certain elements Complies with the requirements

(#) = Eurofins Consumer Product Testing (Hamburg) is accredited for this test.

JUDGEMENT

European Toy Directive 2009/48/EG

EN 71-3:2013 Migration of certain 19 elements: PASS

Remark: the tested components were chosen by the customer.

Test results and evaluation are only related to tested items. Within the scope of the performed tests there were no reasons found for an objection.

Signature



Denis Campbell, Sales Manager Toy Testing

Appendix 1 to report no: AR-14-JR-011122-01

Sample no: 799-2014-00031709

JR0EP - EN 71-3:2013 Safety of Toys - Migration of certain 19 elements

 Limits of element migration from accessible parts of toy material
 All figures quoted as mg soluble element per kg material

Element		B	Al	Cr(III) Cr(VI)	Mn	Co	Ni	Cu	Zn	As	Se	Sr	Cd	Sn	Organic tin	Ba	Hg	Pb	Sb
Limits Category I (dry, brittle, powder like, pliable) mg/kg		1200	5625	37,5 0,02	1200	10,5	75	622,5	3750	3,8	37,5	4500	1,3	15000	0,9	1500	7,5	13,5	45
Limits Category II (liquid, sticky) mg/kg		300	1406	9,4 0,005	300	2,6	18,8	156	938	0,9	9,4	1125	0,3	3750	0,2	375	1,9	3,4	11,3
Limits Category III (scraped-off) mg/kg		15000	70000	460 0,2	15000	130	930	7700	46000	47	460	56000	17	180000	12	18750	94	160	560
Description of sample		Results of analysis																	
A	Foamalite green Cat I <input type="checkbox"/> Cat II <input type="checkbox"/> Cat III <input checked="" type="checkbox"/>	14	0,47	total Cr 0,02	0,86	<0,05*	<0,25*	0,05	35	<0,05*	<0,5*	1,5	<0,05*	9,6	<0,2 ^{*a}	0,54	<0,05*	<0,05*	1,6
B	Foamalite black Cat I <input type="checkbox"/> Cat II <input type="checkbox"/> Cat III <input checked="" type="checkbox"/>	0,85	0,52	total Cr 0,05	1,1	<0,05*	<0,25*	0,07	15	<0,05*	<0,5*	1,8	<0,05*	13	<0,2 ^{*a}	0,59	<0,05*	<0,05*	<0,25*
C	Foamalite blue Cat I <input type="checkbox"/> Cat II <input type="checkbox"/> Cat III <input checked="" type="checkbox"/>	19	0,66	total Cr 0,02	1,4	<0,05*	<0,25*	0,06	47	<0,05*	<0,5*	2,1	<0,05*	15	<0,2 ^{*a}	0,62	<0,05*	<0,05*	2,8
D	Foamalite orange Cat I <input type="checkbox"/> Cat II <input type="checkbox"/> Cat III <input checked="" type="checkbox"/>	19	<0,25*	total Cr <0,02*	1,4	<0,05*	<0,25*	0,05	57	<0,05*	<0,5*	2,3	<0,05*	15	<0,2 ^{*a}	<0,25*	<0,05*	<0,05*	3,5
E	Foamalite light yellow Cat I <input type="checkbox"/> Cat II <input type="checkbox"/> Cat III <input checked="" type="checkbox"/>	19	0,43	total Cr <0,02*	1,2	<0,05*	<0,25*	0,06	48	<0,05*	<0,5*	1,9	<0,05*	14	<0,2 ^{*a}	0,59	<0,05*	<0,05*	2,5
F	Foamalite red Cat I <input type="checkbox"/> Cat II <input type="checkbox"/> Cat III <input checked="" type="checkbox"/>	11	<0,25*	total Cr <0,02*	0,86	<0,05*	<0,25*	0,05	38	<0,05*	<0,5*	1,4	<0,05*	9,2	<0,2 ^{*a}	0,49	<0,05*	<0,05*	2,5

Appendix 1 to report no: AR-14-JR-011122-01

Sample no: 799-2014-00031709

Element		B	Al	Cr(III) Cr(VI)	Mn	Co	Ni	Cu	Zn	As	Se	Sr	Cd	Sn	Organic tin	Ba	Hg	Pb	Sb
Limits Category I (dry, brittle, powder like, pliable) mg/kg		1200	5625	37,5 0,02	1200	10,5	75	622,5	3750	3,8	37,5	4500	1,3	15000	0,9	1500	7,5	13,5	45
Limits Category II (liquid, sticky) mg/kg		300	1406	9,4 0,005	300	2,6	18,8	156	938	0,9	9,4	1125	0,3	3750	0,2	375	1,9	3,4	11,3
Limits Category III (scraped-off) mg/kg		15000	70000	460 0,2	15000	130	930	7700	46000	47	460	56000	17	180000	12	18750	94	160	560
Description of sample		Results of analysis																	
G	Foamalite dark yellow Cat I <input type="checkbox"/> Cat II <input type="checkbox"/> Cat III <input checked="" type="checkbox"/>	11	0,41	total Cr <0,02*	0,9	<0,05*	<0,25*	0,05	31	<0,05*	<0,5*	1,5	<0,05*	8,5	<0,2* ^a	0,43	<0,05*	<0,05*	2,2
H	Foamalite dark blue Cat I <input type="checkbox"/> Cat II <input type="checkbox"/> Cat III <input checked="" type="checkbox"/>	4,9	<0,25*	total Cr 0,02	0,65	<0,05*	<0,25*	<0,05*	16	<0,05*	<0,5*	1,1	<0,05*	6,5	<0,2* ^a	<0,25*	<0,05*	<0,05*	0,66
I	Foamalite grey Cat I <input type="checkbox"/> Cat II <input type="checkbox"/> Cat III <input checked="" type="checkbox"/>	4,5	2	total Cr 0,02	0,66	<0,05*	<0,25*	0,06	14	<0,05*	<0,5*	1,1	<0,05*	6	<0,2* ^a	<0,25*	<0,05*	<0,05*	0,52

* Limit of quantification

^a measured with GC/MS

Test results and evaluation relate to the tested items only.

Appendix 1 to report no: AR-14-JR-011122-01
Sample no: 799-2014-00031709

Limits for Germany:

Antimony (Sb): 60mg/kg

Arsenic (As): 25mg/kg

Barium (Ba): 1000mg/kg

Lead (Pb): 90mg/kg

Mercury: 60 mg/kg

Tested by: CBD

Date: 2014-06-24

Appendix 1 to report no: AR-14-JR-011122-01
 Sample no: 799-2014-00031709

Analytical details (EN 71-3 clause 10)

10f Technique used: Inductively coupled plasma

10h Notes for individual sample portions -
 the following notes apply to the samples indicated and referenced above:

	Applicable samples:
Between 10 and 100mg taken:	
Sample/volume ratio exceeds 1:50:	
Base material included:	
Samples sieved:	
2M HCl added:	
6M HCl added:	
n-heptane used:	
Samples centrifuged:	
Specimens adjusted to 0.3M:	
Less than 10mg present:	
Others:	

Bildanhang zu Prüfbericht: AR-14-JR-011122-02
Proben-Nummer: 799-2014-00031709

3A PVC Color (FOREX color, Foamalite color)

