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ANALYTICAL REPORT SP18-005900

The analysis of the sample said to be : Consumer Products

Article description : Yellow silicon wristbands
Article no : -
Date sample received : 16-02-2018
Testing Period : 19-02-2018 till 23-02-2018

(* Based on ISO/TR 8124-8)



<u>Sample</u>	<u>Description</u>
001	Yellow glow silicon wristband
002	Yellow silicon wristband with print

Test Requested

EN 71-3 Safety of Toys - Migration of Certain Elements CAT III
Lead content - Regulation (EC) 1907/2006

Method

EN 71-3:2013+A2(2017)
0024-EM

Result

PASS
PASS

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EN 71-3 Safety of Toys - Migration of Certain Elements CAT III

Category III: Scraped-off materials

Method: With reference to EN71-3:2013+A2(2017). Analysis of general elements is performed by ICP-MS. If confirmation of Chromium (III) and Chromium (VI) has been performed, Chromium (III) was obtained by calculation, Chromium (VI) was analyzed by IC-UV/VIS and organic tin was analyzed by GC-MS.

		mg/kg	Permissible Limit (mg/kg)
		001	
Weight of the sample	g	>0,10	
Soluble Aluminium	Al	130	70.000
Soluble Antimony	Sb	<10	560
Soluble Arsenic	As	<10	47
Soluble Barium	Ba	<50	18.750
Soluble Boron	B	<50	15.000
Soluble Cadmium	Cd	<5,0	17
Soluble Chromium	Cr	<0,15	--
Soluble Chromium (III)	Cr(III)	<5,0	460
Soluble Chromium (VI)	Cr(VI)	<0,18	0,2
Soluble Cobalt	Co	<10	130
Soluble Copper	Cu	<50	7.700
Soluble Lead	Pb	<10	160
Soluble Manganese	Mn	<50	15.000
Soluble Mercury	Hg	<10	94
Soluble Nickel	Ni	<10	930
Soluble Selenium	Se	<10	460
Soluble Strontium	Sr	230	56.000
Soluble Tin	Sn	<0,20	180.000
Soluble Organic Tin	--	<0,50	12
Soluble Zinc	Zn	<50	46.000
Conclusion		PASS	

- Note:
- NC = Not conducted
 - INCONCLUSIVE = Confirmation test is recommended.
 - Confirmation test of soluble chromium (III) and chromium (VI) is not required in case of soluble chromium does not exceed their requirements as specified in EN71-3:2013+A2(2017). Confirmation shall be subcontracted within The SGS group.
 - If soluble chromium is <0,18, it is assumed that chromium (III) is <5 and chromium (VI) is <0,18.
 - Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN71-3:2013+A2(2017). Confirmation shall be subcontracted within The SGS group.
 - If soluble tin is <4,9, it is assumed that soluble organic tin is <12.
 - NA = Not applicable; As received, test portion of the subsample is less than 10 mg, therefore such component was not tested for migration of certain elements, as specified in EN71-3:2013+A2(2017).
 - The measurement uncertainty has been applied to reach the conclusion.
 - The results only apply to the items tested.

Lead content - Regulation (EC) 1907/2006

Test item	Pb
Unit	mg/kg
Permissible limit	500
002	<2,5

According to the European Regulation (EC) No. 1907/2006 (REACH) Annex XVII entry 63 and its amendments, the total lead content in consumer products or accessible parts of products, which may be placed in the mouth by children, shall not exceed 0,05%.

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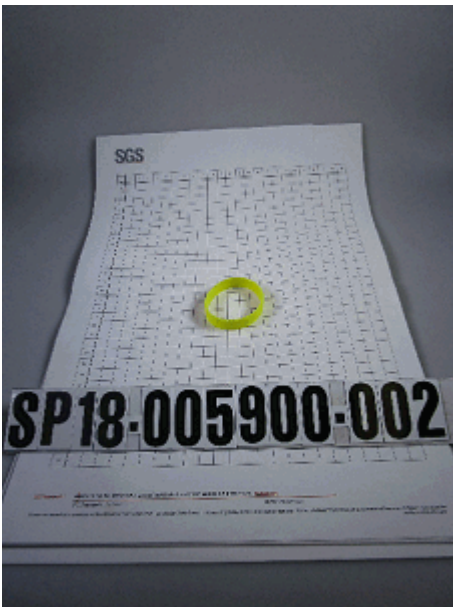
Sample: 001

Description: Yellow glow silicon wristband



Sample: 002

Description: Yellow silicon wristband with print



Spijkernisse, 23 February 2018

C&R/AFL Laboratory

E.A.M. van Meurs
Laboratory Manager

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