STC Test Report

Date : 2016-08-26
No. : DP337858

Applicant	:	东莞市潮德阻燃材料有限公司 广东省东莞市大岭山镇梅林村邝屋路 15 号 Attn: 曾庆辉
Description of Samples	:	One style of submitted sample(s) said to be : Item Name: Flame-retardant Glue 阻燃胶 (see the attached photo) Item No.: TC-0732D Supplier: 潮德阻燃 Country of Origin: 东莞
Date Samples Received	:	2016-08-19
Date Tested	:	2016-08-19 to 2016-08-25
Investigation Requested	:	EN71-3 :2013+A1:2014: Migration of certain elements
Conclusion(s)	:	EN71-3 :2013+A1:2014: Migration of certain elements The submitted sample(s) **complied** with the test requirement.

Shanny huang

HUANG Qi-yin, Shanny
Authorized Signatory
Toys and Children's Products Department
For and on behalf of
STC(Dongguan) Company Ltd

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Test Results:

EN71-3 :2013+A1:2014: Migration of certain elements
Method used: EN71-3: 2013+A1:2014
Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer and Inductively Coupled Plasma Mass Spectrometry

Category II: Liquid or sticky

Liquid or sticky material
(a) Glue: white

Elements	Result (mg/kg)	Limit(mg/kg)
	a	
Aluminium	ND	1406
Antimony	ND	11.3
Arsenic	0.5	0.9
Barium	ND	375
Boron	ND	300
Cadmium	ND	0.3
Chromium(III)	ND	9.4
Chromium (VI)	ND	0.005
Cobalt	ND	2.6
Copper	ND	156
Lead	ND	3.4
Manganese	ND	300
Mercury	ND	1.9
Nickel	ND	18.8
Selenium	ND	9.4
Strontium	ND	1125
Tin	26	3750
Organic tin	*	0.2
Zinc	ND	938

Note(s): (1) ND = Not detected (see Table A)
(2) mg/kg = milligrams per kilogram
(3) The Chromium (III) and Chromium (VI) content was reported as Chromium. Whenever the result of Chromium exceeded the limit of Chromium (III) and Chromium (VI), confirmation test was performed.
(4) *= See soluble organic tin section

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Table A. Detection limit	
Elements	Limit of Detection (mg/kg)
Aluminium	5
Antimony	0.5
Arsenic	0.1
Barium	5
Boron	5
Cadmium	0.1
Chromium(III)	0.5
Chromium (VI)	0.005
Cobalt	0.5
Copper	5
Lead	0.5
Manganese	5
Mercury	0.1
Nickel	0.5
Selenium	0.5
Strontium	5
Tin	0.2
Organic tin	0.2
Zinc	5

Soluble Organic Tin contents
Method used: EN71-3: 2013+A1:2014
Determined by: Gas Chromatography Mass Spectrometry

Category II: Liquid or sticky

Liquid or sticky material
(a) Glue: white

Organic tin		Result(s) (mg/kg) Sample (a)	LOD (mg/kg)	Limit (mg/kg)
Methyl tin	(MeT)	ND	0.1	
Di-n-propyl tin	(DProT)	ND	0.1	
n-Octyl tin	(MOT)	ND	0.1	
Dibutyl tin	(DBT)	ND	0.1	
Di-n-octyl tin	(DOT)	ND	0.1	
Diphenyl tin	(DPhT)	ND	0.1	

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Organic tin		Result(s) (mg/kg) Sample (a)	LOD (mg/kg)	Limit (mg/kg)
Tributyl tin	(TBT)	ND	0.1	
Triphenyl tin	(TPhT)	ND	0.1	
Tetrabutyl tin	(TeBT)	ND	0.1	
Butyl tin	(BuT)	ND	0.1	
Sum		ND	--	0.2

Note(s): (1) ND= Not detected (lower than LOD)
(2) mg/kg = milligrams per kilogram
(3) LOD = Limit of detection
(4) The migration of organic tin were expressed as tributyltin cation according to EN71-3: 2013+A1:2014

******* End of Test Report *******

STC (Dongguan) Company Limited

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Appendix for Photos of the Submitted Sample(s)



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2. Any report issued by the Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to his customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion of correspondence with any Third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

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5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

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8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

9. The Company will take reasonable care of samples submitted for testing whilst in the Company's possession. However, no liability is accepted for loss or damage howsoever caused, to goods and/or samples whilst in the possession or under the control of the Company. Mutilation of samples submitted for the purpose of testing is inevitable. The Company will return, on the Client's written request, only what remains of the samples after testing. The Clients agree that any samples, of retained by the Company may be destroyed after one month, unless the Company has been specifically instructed otherwise.

10. Sample which are in the Company's reasonable opinion too small to afford an adequate examination or test to be made, may nevertheless, subject to the Company's entire discretion, be accepted for test but the relevant report may be accordingly qualified.