

TEST REPORT

Mechanical & Hardgoods Laboratory

Report No : HY/2018/50187

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Date : 2018/06/04

FLOMO PLASTICS INDUSTRIAL CO., LTD.

NO. 42, ZHONG SHAN ROAD SEC. 2, HU NEI DISTRICT, KAOHSIUNG, 82942 TAIWAN

The following merchandise was submitted & identified by the applicant as:

Type of Product: ECO ERASER – WHITE / CHARCOAL
Style/Item No: ER-T20 / ER-TC20 / ER-T33 / ER-TC33 / ER-T101 / ER-TC101 / ER-T102 / ER-TC102
Manufacturer/Vendor: FLOMO PLASTICS INDUSTRIAL CO., LTD.
Country of Origin: TAIWAN
Label Age Grading: Not stated
Requested Age Grading: AGE OF 3 AND UP
Age Group Applied in Testing: 3 years +
Sample Receiving Date: 2018/05/25
Testing Period: 2018/05/26 – 06/04

We have tested the submitted sample(s) as requested and the following results were obtained:

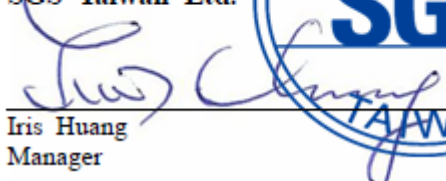
Test Requested:

Please refer to the result summary.

Methods and Results:

Please refer to next page(s).

Signed for and on behalf of
SGS Taiwan Ltd.


Iris Huang
Manager



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Result Summary:

<u>Item</u>	<u>Test Parameter</u>	<u>Conclusion</u>
1	EN 71 Part 1:2014 – Mechanical and Physical Properties	Pass (See result 1)
2	EN 71 Part 2:2011+A1:2014 – Flammability	Pass (See result 2)
3	EN 71 Part3:2013 +A1:2014 +A2:2017under European Directive 2009/48/EC Migration of Certain Elements for scrapped-off toy material (As per client's request, a test of composite samples was conducted.)	Pass (See result 3)
4	Phthalate content in accordance with Annex 17 of REACH Regulation (EC) No 1907/2006	Pass (See result 4)

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Test Results:

1. EN71-1:2014 – Mechanical and Physical Properties

Clause	Description	Result
4	General requirements	
4.1	Material cleanliness	<u>Pass</u>
4.7	Edges	<u>Pass</u>
4.8	Points and metallic wires	<u>Pass</u>
5	Toys intended for children under 36 months	
5.1	General requirements	<u>Pass</u>
6	Packaging	<u>Pass</u>
7	Warnings, markings and instructions for use	
7.1	General	<u>N/A</u>
7.2	Toys not intended for children under 36months (Remark: No small part was found before and after test. Therefore, small part warning should not be shown on the packaging.)	<u>See Remark</u>

LABELING REQUIREMENT (WASHING/CLEANING INSTRUCTION, CE MARK, IMPORTER / MANUFACTURER NAME AND ADDRESS, PRODUCT IDENTIFICATION) ACCORDING TO THE DIRECTIVE 2009/48/EC – SAFETY OF TOYS

Summary table:

	Observation Result	Location
Washing/Cleaning instruction	Not applicable	---
CE mark	Absent	---
Importer's Name & Address	Absent	---
Manufacturer's Name & Address	Absent	---
Product ID	Absent	---

Note:

- According to Directive 2009/48/EC, a toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soak washed. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned.
- CE marking should be visible from outside the packaging and its height must be at least 5mm.
- Manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
- Manufacturers must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

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2. EN 71 Part 2:2011+A1:2014 – Flammability

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	Requirements	
4.1	General requirements	<u>Pass</u>

N.B.: -Only applicable clauses were shown

3. Migration of Certain Elements

Category III: Scrapped-off toy material

Method: With reference to EN 71 Part 3:2013+A1:2014+A2:2017. Analysis of general elements was performed by ICP-MS. Extractable Organic Tin was analyzed by GC-MS. Extractable Chromium III & Chromium VI were analyzed by LC-ICP-MS.

<u>Test Items</u>		<u>Result(mg/kg)</u>	<u>RL</u>	<u>Limit</u>
		<u>1~2</u>	<u>(mg/kg)</u>	<u>(mg/kg)</u>
Soluble Aluminium	(Al)	N.D.	50	70,000
Soluble Antimony	(Sb)	N.D.	10	560
Soluble Arsenic	(As)	N.D.	10	47
Soluble Barium	(Ba)	N.D.	50	18,750
Soluble Boron	(B)	N.D.	50	15,000
Soluble Cadmium	(Cd)	N.D.	5	17
Soluble Cobalt	(Co)	N.D.	10	130
Soluble Copper	(Cu)	N.D.	50	7,700
Soluble Lead	(Pb)	N.D.	10	160
Soluble Manganese	(Mn)	N.D.	50	15,000
Soluble Mercury	(Hg)	N.D.	10	94
Soluble Nickel	(Ni)	N.D.	10	930
Soluble Selenium	(Se)	N.D.	10	460
Soluble Strontium	(Sr)	N.D.	50	56,000
Soluble Tin	(Sn)	N.D.	4.9	180,000
Soluble Zinc	(Zn)	N.D.	50	46,000
Soluble Chromium (III)	(Cr (III))	N.D.	5	460
Soluble Chromium (VI)	(Cr (VI))	N.D.	0.18	0.2
Soluble Organic Tin#	-	N.D.	-	12

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Remark: #

Test Items		Soluble Organic Tin Result(s)	MDL
		1~2	(mg/kg)
Methyl tin	(MeT)	N.D.	0.5
Di-n-propyl tin	(DProT)	N.D.	0.5
Butyl tin	(BuT)	N.D.	0.5
Dibutyl tin	(DBT)	N.D.	0.5
Tributyl tin	(TBT)	N.D.	0.5
n-Octyl tin	(MOT)	N.D.	0.5
Tetrabutyl tin	(TeBT)	N.D.	0.5
Di-n-octyl tin	(DOT)	N.D.	0.5
Diphenyl tin	(DPhT)	N.D.	0.5
Triphenyl tin	(TPhT)	N.D.	0.5

4. Phthalate content

Method: With reference to EN 14372: 2004 method. Analysis was performed by GC/MS.

<u>Test items</u>	<u>Unit</u>	<u>MDL</u>	<u>1</u>	<u>Permissible Limit</u>
Dibutyl Phthalate (DBP)	%	0.003	N.D.	0.1%
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	
Di-(2-ethylhexyl)Phthalate (DEHP)	%	0.003	N.D.	
Diisononyl Phthalate (DINP)	%	0.01	N.D.	0.1%
Di-n-octyl Phthalate (DNOP)	%	0.003	N.D.	
Diisodecyl Phthalate (DIDP)	%	0.01	N.D.	

Description:

- Composite of black, white eraser of sample.
- Multicolored printing paper of sample.

- Note:
1. mg/kg = ppm
 2. N.D. = not detected
 3. RL= Reporting Limit
 4. MDL =Method Detection Limit
 5. “-“ = Not Regulated
 6. Composite test has been performed as per the special request of client
 7. The chemical analysis was conducted in SGS Taiwan Ltd. Chemical Laboratory-Taipei

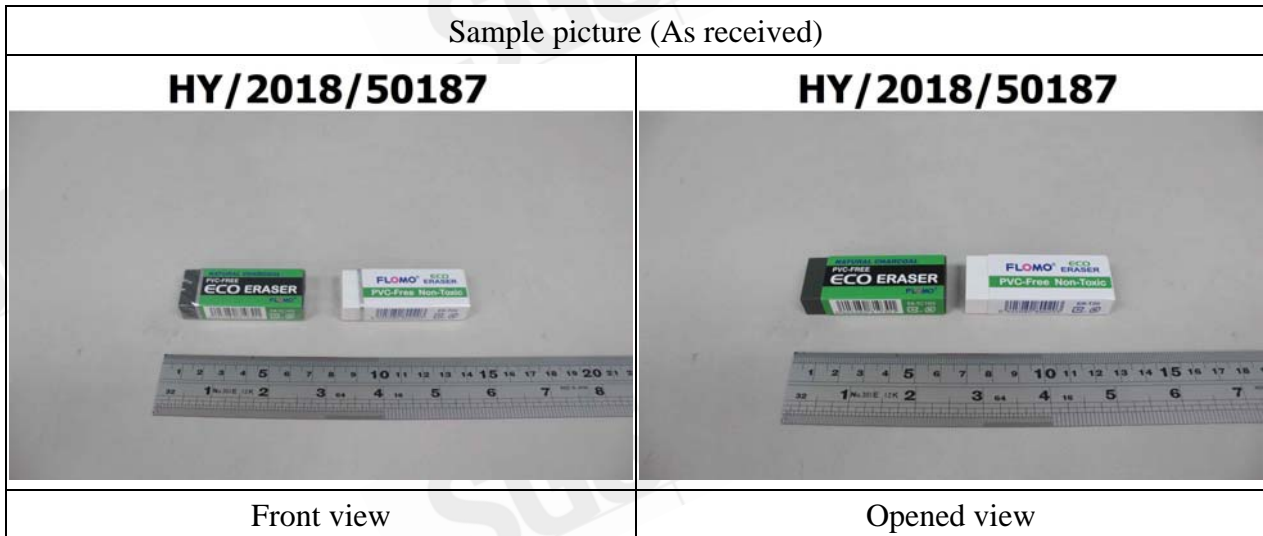
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** End of Report **

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