

SAFETY OF TOYS. SPECIFICATION FOR MIGRATION OF CERTAIN ELEMENTS according to UNE EN 71-3:2013+A1 2014 AND DIRECTIVE 2009/48/EC

1.- SAMPLE DESCRIPTION.

2S COATED MATT BULKY

2.- MANUFACTURER

TORRAPAPEL, S.A., CONDAT S.A.S and CARTIERI DEL GARDA SpA (LECTA GROUP)

3.- TEST METHODOLOGY.

Sample preparation and metals extraction have been carried out according to UNE-EN 71-3, chapter 7.

Determination of aluminium (Al), boron (B), chromium (Cr), manganese (Mn), cobalt (Co), nickel (Ni), copper (Cu), zinc (Zn), arsenic (As), selenium (Se), strontium (Sr), cadmium (Cd), tin (Sn), antimony (Sb), barium (Ba), mercury (Hg) and lead (Pb) have been made by ICP-MS induced plasma spectrometry.

4.- RESULTS.

Testing date: 19/02/2016

Analytical results referred to soluble element, expressed as mg element/kg material are presented in next table.

Metals	Content (ppm)	Maximum allowed value (ppm)
Aluminium	119,71	5625
Boron	<35	1200
Chromium(total)	0,78	37,5
Manganese	7,32	1200
Cobalt	0,27	10,5
Nickel	<0,10	75
Copper	3,43	622,5
Zinc	<0,10	3750
Arsenic	0,56	3,8
Selenium	<0,10	37,5
Strontium	49,79	4500
Cadmium	<0,10	1,3
Tin	<0,10	15000
Tin(org)	<0,10	0,9
Antimony	<0,10	45
Barium	1,96	1500
Mercury	<0,10	7,5
Lead	0,54	13,5

Results of migration indicate that none of the elements analyzed surpasses maximum values allowed.

5. - CONCLUSIONS.

Paper sample analysed, referred as 2S COATED MATT BULKY **is agree** with UNE-EN 71-3 on safety of toys. Part 3: Migration of certain elements.

Service responsible



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Dr. Industrial Engineer

Laboratory responsible



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Dr. Biology Science Degree



**Laboratori
d'Enginyeria Paperera
i Materials Polímers**



**EUROPEAN STANDARD UNE-EN 71-9:2005+A1: 2007.
SAFETY OF TOYS. PART 9: ORGANIC CHEMICAL COMPOUNDS.
REQUIREMENTS**

1.-OBJECTIVE

To check whether the material is in accordance with the requirements of European Standard UNE-EN 71-9, Safety of toys, part 9: organic chemical compounds. Requirements, November 2007. This modification cancels and replaces the Standard EN 71-9:2005 and includes Amendment 1 approved by CEN on 2007-05-26.

2.-SAMPLE DESCRIPTION:

Sample: ESTUCADO 2C MATE VOLUMEN

Reference number: 17_SCA 039 CP82

3.- MANUFACTURER:

TORRASPAPEL, S.A., CONDAT S.A.S and CARTIERE del GARDA SpA (LECTA GROUP)

4.- REQUIREMENTS

The paper accessible parts of toys intended for children under 3 years should not contain formaldehyde above 30 mg/kg when tested in accordance with EN 645 and EN 1541.

Absence of substances indicated in Table I 2B and 2C on dyes and aromatic primary amines. Table 2B on dyes and Table 2C on primary aromatic amines.

5.- DATE AND PLACE OF DETERMINATION

Date: July 13th 2017

Grupo LEPAMAP. Universitat de Girona.

C/ M. Aurèlia Capmany, 61, 17003 GIRONA

6.- RESULTS

Parameter	Results	Maximum allowed
formaldehyde	2,6 mg/kg	30 mg/kg

6.- CONCLUSION

The sample analysed referenced as ESTUCADO 2C MATE VOLUMEN **is in accordance** with the requirements of European Standard UNE-EN 71-9, Safety of toys, part 9: organic chemical compounds. November 2007.

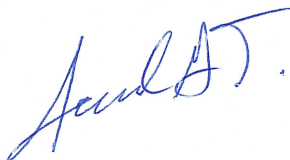
Complies with section 4.3 - formaldehyde and contains no banned substances in Table 2B and 2C.

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