

SAFETY OF TOYS. SPECIFICATION FOR MIGRATION OF CERTAIN ELEMENTS according to UNE EN 71-3:1996

1.- SAMPLE DESCRIPTION.

- 1 SIDE COATED GLOSS

2.- MANUFACTURER

- TORRASPAPEL, S.A.

3.- TEST METHODOLOGY.

Sample preparation and metals extraction have been carried out according to UNE-EN 71-3, chapter 8 and the corresponding actualizations UNE-EN 71-3/A1:2001 and UNE-EN 71-3/AC:2002.

Determination of antimony (Sb), arsenic (As), barium (Ba), cadmium (Cd), chromium (Cr), lead (Pb), selenium (Se) and mercury (Hg) have been made by ICP-MS induced plasma spectrometry.

4.- RESULTS.

Testing date: 30/7/10

Analytical results referred to soluble element, expressed as mg element/kg material have been corrected as Standard UNE-EN 71-3 defines in chapter 4. These results are presented in next table. Maximum values are those allowed in UNE-EN 71-3 standard for these specific metals all them referred to soluble part.

| Metals | Content (ppm) | Maximum allowed value (ppm) |
|----------|---------------|-----------------------------|
| Antimony | <0,25 | 60 |
| Arsenic | <0,25 | 25 |
| Barium | 0,16 | 1000 |
| Cadmium | <0,25 | 75 |
| Chromium | <0,25 | 60 |
| Lead | <0,25 | 90 |
| Mercury | < 0,10 | 60 |
| Selenium | <0,25 | 500 |

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

5. - CONCLUSIONS.

Paper sample analysed, referred as 1 SIDE COATED GLOSS is agree with UNE-EN 71-3 on safety of toys. Part 3: Migration of certain elements.

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