

Laboratory Test Report

REPORT NUMBER: 43062006

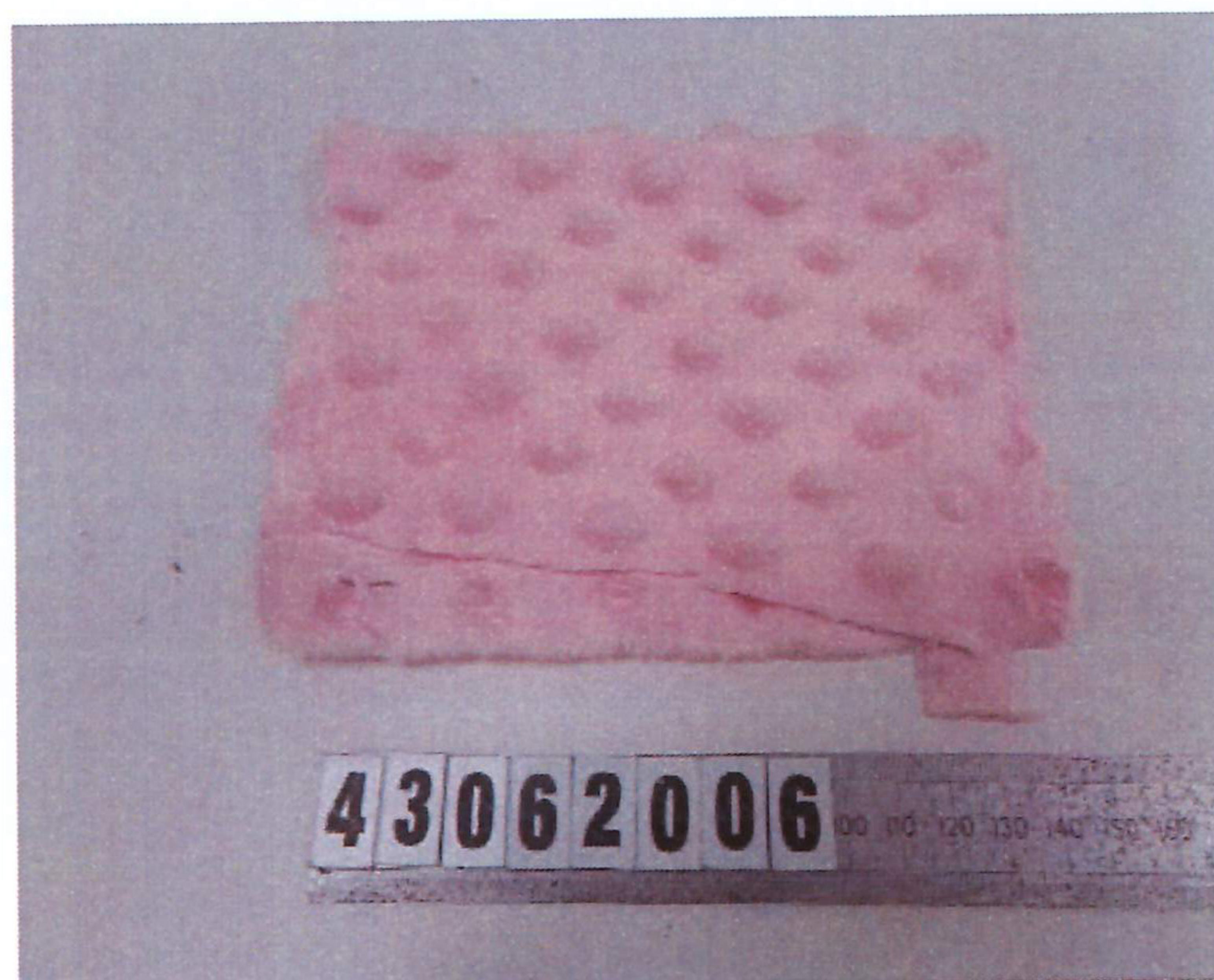
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Prepared for: Mr J. Bank
Oddies Textiles, Unit 3, Bank House
Greenfield Road, Colne
Lancashire
BB8 9NL

Sample described as: POLYESTER DIMPLE FLEECE
Number of samples: 1
Date received: 20/06/2023
Packaging: Supplied without packaging
Condition: visibly undamaged condition.
Batch: N/S
Description: Pink dimple fleece

Reference number(s): C6304 PINK
Date(s) tested: 20/06/2023 - 05/07/2023
Declared age: N/A
Tested age grade: N/A
PO/Order number: JAY1509A

Photo of submitted sample



Prepared by

Joanna Wolan

Joanna Wolan, Analytical Chemist

For and on behalf of
Eurofins MTS Consumer Product Testing UK Ltd

Mathew Boddy

Mathew Boddy, Analytical Lab Supervisor

Date: 05/07/2023

The results herein relate only to the items tested. This report is issued in accordance with Eurofins MTS Consumer Product Testing UK Ltd's terms and conditions which are available on request.



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TEST RESULT SUMMARY	
Test requested	Result
EN 71-3:2019 + A1:2021 – Migration of Certain Elements	PASS

Note: The above testing was performed by a Eurofins Global partner lab.

COMPONENT BREAKDOWN LIST:

Test Item	Component description	Material
A1	Pink dimple fleece	Category III

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TEST RESULTS

EN 71-3:2019 + A1:2021 – Migration of Certain Elements

Analyte		Results (mg/kg)									
		A1	-	-	-	-	-	-	-	-	-
Aluminium	Al	<3	-	-	-	-	-	-	-	-	-
Antimony	Sb	<0.5	-	-	-	-	-	-	-	-	-
Arsenic	As	<0.3	-	-	-	-	-	-	-	-	-
Barium	Ba	<2	-	-	-	-	-	-	-	-	-
Boron	B	<4	-	-	-	-	-	-	-	-	-
Cadmium	Cd	<0.03	-	-	-	-	-	-	-	-	-
Chromium	Cr	<0.03	-	-	-	-	-	-	-	-	-
Cobalt	Co	<0.1	-	-	-	-	-	-	-	-	-
Copper	Cu	<1	-	-	-	-	-	-	-	-	-
Lead	Pb	<0.3	-	-	-	-	-	-	-	-	-
Manganese	Mn	<1	-	-	-	-	-	-	-	-	-
Mercury	Hg	<0.3	-	-	-	-	-	-	-	-	-
Nickel	Ni	<1	-	-	-	-	-	-	-	-	-
Selenium	Se	<3	-	-	-	-	-	-	-	-	-
Strontium	Sr	<0.5	-	-	-	-	-	-	-	-	-
Tin	Sn	<2	-	-	-	-	-	-	-	-	-
Zinc	Zn	<1	-	-	-	-	-	-	-	-	-
Conclusion		PASS	-	-	-	-	-	-	-	-	-

Method: EN 71-3:2019 + A1:2021 using ICP-MS.

Notes: mg/kg = milligram per kilogram
“<” = less than

UoM:

Analyte	Uncertainty (%)	Analyte	Uncertainty (%)
Aluminium	20.62	Lead	33.17
Antimony	33.17	Manganese	20.62
Arsenic	24.50	Mercury	33.17
Barium	33.17	Nickel	24.50
Boron	20.62	Selenium	24.50
Cadmium	24.50	Strontium	20.62
Chromium	24.50	Tin	33.17
Cobalt	24.50	Zinc	20.62
Copper	20.62		

Limits:

Analyte	Cat. I	Cat. II	Cat. III	Analyte	Cat. I	Cat. II	Cat. III
Aluminium	2,250	560	28,130	Lead	2.0	0.5	23
Antimony	45	11.3	560	Manganese	1,200	300	15,000
Arsenic	3.8	0.9	47	Mercury	7.5	1.9	94
Barium	1,500	375	18,750	Nickel	75	18.8	930
Boron	1,200	300	15,000	Selenium	37.5	9.4	460
Cadmium	1.3	0.3	17	Strontium	4,500	1,125	56,000
Chromium III	37.5	9.4	460	Tin	15,000	3,750	180,000
Chromium VI	0.02	0.005	0.053	Organic Tin	0.9	0.2	12
Cobalt	10.5	2.6	130	Zinc	3,750	938	46,000
Copper	622.5	156	7,700				

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CONCLUSION

The EN 71-3 screening test performed by Eurofins Consumer Product Testing UK tests for the migration of 16 of the 19 elements restricted by EN 71-3:2019+A1:2021.

It does not analyse for the migration of chromium III, chromium VI, and organic tin, however, suitably low result for overall chromium and overall tin migration may be used to infer compliance with these limits.

Analysis of the sample(s) found that migration of the 16 elements restricted elements did not exceed the respective category limits, and therefore comply with the requirements of EN 71-3:2019+A1:2021.

Overall tin migration from the sample(s) was found to not exceed the in-house inference limit for organic tin and can therefore be inferred as complying with the requirement for organic tin.

Overall chromium migration from the sample(s) was found to not exceed the in-house inference limits for chromium III and chromium VI and can therefore be inferred as complying with the requirements for both.

The test results contained in this report relate only to the sample(s) submitted and may not relate to the bulk from which the sample has been taken. This report is issued in accordance with Eurofins Consumer Product Testing UK's terms and conditions which are available on request. This report shall not be reproduced other than in full without prior written approval by Eurofins Consumer Product Testing UK Ltd.

End of Report

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ANNEX A: DECISION RULES

Rule 1	<p>Applicable to any requirement stated to be 'Minimum xxxx' or 'Maximum xxxx':</p> <p>The use of constrained simple acceptance based on the difference between the stated limit (requirement) and the reported test result being greater than the measurement uncertainty (U) for a conformity probability of 95%. The risk of false accept or false reject is $\leq 2.5\%$</p>
Rule 2	<p>Applicable to any requirement stated to be a range (e.g. XXX to YYY or $AAA \pm B$):</p> <p>The use of constrained simple acceptance based on the difference between the stated upper or lower limit (requirement) and the reported test result being greater than the measurement uncertainty (U) for a conformity probability of 95%. The risk of false accept or false reject is $\leq 2.5\%$</p>
Rule 3	<p>For tests based on subjective grading of a result using a 9-point scale (e.g. colour fastness, pilling, etc):</p> <p>Simple acceptance based on the test uncertainty ratio (T.U.R.) being ≥ 4. The risk of false accept or false reject is up to 50% but will be reduced the further the reported result is away from the stated requirement.</p>
Rule 4	<p>For tests based on a subjective assessment of a property (e.g. whether a component detaches or not):</p> <p>Simple acceptance based upon the conditions of testing falling within the criteria for test set out in the test method within a conformance probability of 95%. The risk of false accept or false reject of the testing conditions not meeting the specified requirements is 2.5%.</p>
Rule 5	<p>If a validated test method (e.g. BS EN ISO standard) indicates that the measurement uncertainty has already been taken into account when calculating the test result then results may be reported using simple acceptance without the need for the application of the relevant decision rule set out above.</p>

The above rules will be applied by default unless we have agreed a decision rule to the contrary. Eurofins MTS Consumer Product Testing UK Limited reserves the right to refuse to apply decision rules that do not satisfy the requirements of ISO 17025:2017. Unless otherwise stated in the report text above, uncertainty of measurement values are available upon request.



TEST REPORT

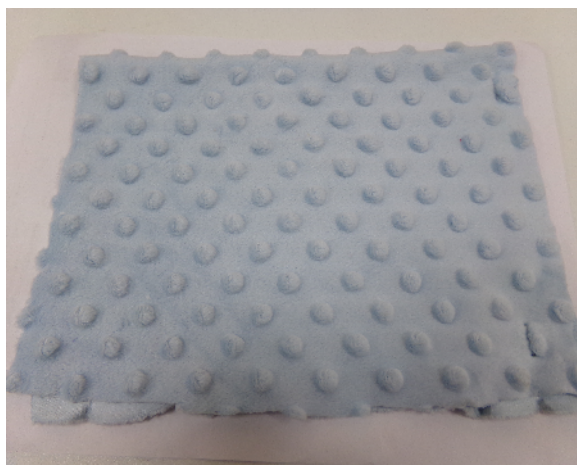


LAB LOCATION: LEEDS, UK
REPORT NUMBER: 41021811

ISSUE DATE: 26/02/21
PAGE: 1 of 4

Applicant: Mr J. Bank
Oddies Textiles, Unit 3, Bank House
Greenfield Road, Colne
Lancashire
BB8 9NL
Item number: C6304BLU
Item name: DIMPLE FLEECE
Batch number: N/A
Sample description: Sample of light blue 'dimpled' textile.
Quantity: 1
P.O./Order number: C6304
Date of submission: 18/02/21
Condition received: visibly undamaged condition.
Test performance date(s): 18/02/2021 - 26/02/2021

Photo of submitted sample



The PASS result refers only to the materials analysed.

RESULTS

EN 71-3:2019 Migration of certain elements	PASS
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Prepared by

B. Watkin, Analytical Chemist

For and on behalf of
Modern Testing Services

Tracy Hughes, Analytical Lab Supervisor

The results herein relate only to the items tested. This report is issued in accordance with MTS (UK)'s terms and conditions which are available on request.

Modern Testing Services (UK) Limited

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Category III - Scraped off material	PASS
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The EN 71-3 screening test used by MTS (UK) tests for the migration of 16 of the 19 'elements' restricted by EN 71-3:2019;

It does not test for the presence of chromium III, chromium VI or organic tin specifically, it does however test for chromium and tin and compliance with the limits for chromium III, chromium VI or organic tin may be inferred from low results from these analyses (see below).

A. Blue fleece

The material(s) complied with the limits of the 16 elements specifically analysed for (see analysis table).

The migration of tin from the sample(s) was determined to be not greater than 4.9 mg/kg, which, when expressed in the form of tributyl tin, would not be greater than the organic tin limit of 12 mg/kg, the material(s) can therefore be inferred as complying with the organic tin limit.

The migration of chromium from the sample(s) was not greater than the chromium III limit of 460 mg/kg or the chromium VI limit of 0.053 mg/kg, the material(s) can therefore be inferred as complying with the chromium III and chromium VI limits.

~~~End of page~~~

Prepared by B. Watkin on 26 February 2021 Signature:

Method of test: EN 71-3:2019 Migration of certain elements

ANALYSIS RESULTS

Category 3

Date of test: 25/02/21

Samples marked \* were sieved, those marked # were centrifuged. Details of additional acid required to lower pH and solvent used for extraction appear in [ ] in sample description.  
Deviations from standard method: pH of conventional polymers and textiles not checked; samples only filtered if required to prevent ICP blockages.  
Solid to acid extractant ratio exceeded 1:50 with sample weights below 100 mg and when additional acid was used to lower pH.  
Quantities of soluble metals determined by inductively coupled plasma spectroscopy.  
Test results marked ^ are within the area to which uncertainty of measurement applies & compliance/non-compliance cannot be inferred.

|   | Metals                | Al    | Sb    | As    | Ba    | B     | Cd     | Cr      | Co    | Cu    | Pb    | Mn    | Hg    | Ni    | Se    | Sr    | Sn     | Zn    |
|---|-----------------------|-------|-------|-------|-------|-------|--------|---------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
|   | Limits                | 70000 | 560   | 47    | 18750 | 15000 | 17     | 460.053 | 130   | 7700  | 23    | 15000 | 94    | 930   | 460   | 56000 | 180000 | 46000 |
|   | Wt (Mg)               |       |       |       |       |       |        |         |       |       |       |       |       |       |       |       |        |       |
| A | 207<br>END OF SAMPLES | < 3   | < 0.5 | < 0.3 | < 2   | < 4   | < 0.03 | < 0.030 | < 0.1 | < 1   | < 0.3 | < 1   | < 0.3 | < 1   | < 3   | < 0.5 | < 2    | 5     |
|   | Uncert%               | 20.62 | 33.17 | 24.50 | 33.17 | 20.62 | 24.50  | 24.50   | 24.50 | 20.62 | 33.17 | 20.62 | 33.17 | 24.50 | 24.50 | 20.62 | 33.17  | 20.62 |





## TEST REPORT

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### ANNEX A:

Statements of conformity for tests with objective measurements are based on simple acceptance after taking the expanded uncertainty of measurement at the 95% probability level into account. Any test result for which the result falls within the area to which uncertainty of measurement applied will be indicated in the test report and the uncertainty of measurement stated. For all other tests, statements of conformity are based on the 95% probability that the conditions of test fall within the criteria and tolerances set out in the test method. The risk of false accept or false reject is therefore  $\leq 2.5\%$ .

#### Uncertainty of measurement:

- EN71-1      Force: 0.5N  
                 Time:  $\pm 0.5$ s  
                 Acoustics:  $\pm 4.6$ dB  
                 Torque:  $<0.01$ N.m  
                 Magnetic flux:  $\pm 0.38\%$  of indicated result  
                 Dimensions:  $\pm 0.0004$ mm callipers)  $\pm 1.5$ mm (steel rule)  
                 Temperature:  $\pm 1.5^{\circ}\text{C}$
- EN71-2:      Flammability: Length:  $\pm 1$  mm  
                 Duration of burn:  $\pm 0.25$  s  
                 Rate of spread of flame: Clause 4.5:  $\pm 2.5$  mm/s; Other clauses:  $\pm 0.5$  mm/s
- EN71-3:      Given at foot of table of results