Laboratory Test Report

Prepared for: Stacie Hudson
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Sittingbourne, Kent
ME10 3BF

Sample described as:	EMU TREASURE LITTLE DOTS		
Number of samples:	4	**Reference number(s):**	N/S
Date received:	01/03/2023	**Date(s) tested:**	01/03/2023 - 03/05/2023
Packaging:	Supplied without packaging	**Declared age:**	N/S
Condition:	visibly undamaged condition.	**Tested age grade:**	N/A
Batch:	N/S	**PO/Order number:**	N/S
Description:	x4 yarns		

Photo of submitted sample

Reference is made in this report to chromium VI analyses carried out by a sub-contractor laboratory. This testing is outside the scope of UKAS accreditation.

I certify that the above mentioned sample has been tested in accordance with the standard / regulation(s) specified below and that it complies or otherwise as follows:

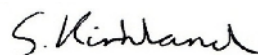| EN 71-3:2019 + A1:2021 Migration of certain elements	**PASS**

This report replaces 43030101, Dated 19/04/2023.

Prepared by

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

Mathew Boddy, Analytical Lab Supervisor

Gareth Kirkland, Technical Services Manager
Date: 03/05/2023

Category III - Scraped off material	PASS

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+A1:2021;

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. Light pink yarn
B. Light purple yarn
C. Dark purple yarn
D. White yarn
E. Turquoise yarn
F. Yellow yarn
G. Red yarn
H. Blue yarn
I. Light brown yarn
J. Light grey yarn

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, the material(s) can therefore be inferred as complying with the chromium III limit.

The migration of chromium from sample A and B was greater than the chromium VI limit of 0.053 mg/kg, the material(s) required specific chromium VI migration analysis to determine compliance with the chromium VI limit, this was carried out by a sub-contractor and the following results were obtained:

A. Light pink yarn   < 0.053 mg/kg
B. Light purple yarn   < 0.053 mg/kg

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

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Prepared by Mathew Boddy on 03 May 2023 Signature:

Method of test: EN71-3:2019 + A1:2021 Migration of Chromium VI

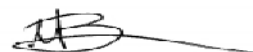## ANALYSIS RESULTS

Category 3

Date of test: 00/00/00

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	28130	560	47	18750	15000	17	460.053	130	7700	23	15000	94	930	460	56000	180000	46000
Wt (Mg)																	
A	203	3	0.9	< 0.3	< 2	< 4	< 0.03	0.139	< 0.1	< 1	0.5	< 1	< 0.3	< 1	< 3	< 0.5	< 2	2
B	205	< 3	0.8	< 0.3	< 2	< 4	< 0.03	0.060	< 0.1	< 1	0.3	< 1	< 0.3	< 1	< 3	< 0.5	< 2	2
C	192	< 3	< 0.5	< 0.3	< 2	< 4	< 0.03	< 0.030	< 0.1	< 1	< 0.3	< 1	< 0.3	< 1	< 3	< 0.5	< 2	< 1
D	195	4	0.7	< 0.3	< 2	< 4	< 0.03	< 0.030	< 0.1	< 1	0.4	< 1	< 0.3	< 1	< 3	< 0.5	< 2	1
E	197	< 3	< 0.5	< 0.3	< 2	< 4	< 0.03	< 0.030	< 0.1	< 1	< 0.3	< 1	< 0.3	< 1	< 3	< 0.5	< 2	< 1
F	198	< 3	< 0.5	< 0.3	< 2	< 4	< 0.03	< 0.030	< 0.1	< 1	< 0.3	< 1	< 0.3	< 1	< 3	< 0.5	< 2	< 1
G	205	< 3	< 0.5	< 0.3	< 2	< 4	< 0.03	< 0.030	< 0.1	< 1	< 0.3	< 1	< 0.3	< 1	< 3	< 0.5	< 2	< 1
H	204	< 3	< 0.5	< 0.3	< 2	< 4	< 0.03	< 0.030	< 0.1	< 1	< 0.3	< 1	< 0.3	< 1	< 3	< 0.5	< 2	< 1
I	198	< 3	< 0.5	< 0.3	< 2	< 4	< 0.03	< 0.030	< 0.1	< 1	< 0.3	< 1	< 0.3	< 1	< 3	< 0.5	< 2	< 1
J	194	< 3	< 0.5	< 0.3	< 2	< 4	< 0.03	< 0.030	< 0.1	< 1	< 0.3	< 1	< 0.3	< 1	< 3	< 0.5	< 2	< 1
END OF SAMPLES																	
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

Prepared by Mathew Boddy   Date: 03 May 2023   Signature:

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Modern Testing Services

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ANNEX A: DECISION RULES

Rule	1	Applicable to any requirement stated to be 'Minimum xxxx' or 'Maximum xxxx': 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 <= 2.5%
Rule	2	Applicable to any requirement stated to be a range (e.g. XXX to YYY or AAA ± B): 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 <= 2.5%
Rule	3	For tests based on subjective grading of a result using a 9-point scale (e.g. colour fastness, pilling, etc): 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.
Rule	4	IFor tests based on a subjective assessment of a property (e.g. whether a component detaches or not): 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%.
Rule	5	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.

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.