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SPECTRUM YARNS LTD
SPA MILLS, NEW STREET,
SLAITHWAITE
HUDDERSFIELD
WEST YORKSHIRE
HD7 5BB
UNITED KINGDOM

Test Report No. BTO 326521/1
Issue Date: 30 July 2024

Attn: Joanne Holroyd

The following sample was submitted and identified by the client as:

Sample Name: MERRY GO ROUND / SQUEEZE ME
Sample Reference: MERRY GO ROUND / SQUEEZE ME
Sample Description: Samples of yarn
Sample Submitted: 04th July 2024
Testing Period: Testing conducted on 25th July 2024
Testing Required: For compliance with the European Standard on Safety of Toys:

BSEN 71-3:2019+A1:2021

Result:

Pass⁽¹⁾⁽²⁾⁽³⁾

- (1) See Appendix for details
- (2) Confirmation testing is Non UKAS accredited
- (3) Confirmation testing has been conducted for Chromium (VI) on samples 3, 4, 5, 6 and 7.

Conclusion: The submitted samples as detailed above, complied with the requirements as listed above.

Signed for and on behalf of
SGS United Kingdom Ltd.



.....
Chris Walker, BSc (Hons)
Technical Manager

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Appendix

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

Method: With reference to BSEN 71-3

Analysis of general elements was performed by ICP-MS. Category (III) scraped off toy material.

Adjusted Analytical Results: Results Quoted as mg of soluble element per Kg material.

	Category Limits			Sample Reference				
	I	II	III	1	2	3	4	5
Aluminium (Al)	2250	560	28130	<50	<50	<50	<50	<50
Antimony (Sb)	45	11.3	560	<1	<1	<1	<1	<1
Arsenic (As)	3.8	0.9	47	<0.15	<0.15	<0.15	<0.15	<0.15
Barium (Ba)	1500	375	18750	<50	<50	<50	<50	<50
Boron (B)	1200	300	15000	<50	<50	<50	<50	<50
Cadmium (Cd)	1.3	0.3	17	<0.15	<0.15	<0.15	<0.15	<0.15
Chromium (Cr)	-	-	-	<0.053	<0.053	0.36	0.29	0.21
Chromium (III) (Cr (III)) ^{#1}	37.5	9.4	460	#	#	#	#	#
Chromium(VI) (Cr (VI)) ^{#2}	0.02	0.005	0.053	#	#	<0.053	<0.053	<0.053
Cobalt (Co)	10.5	2.6	130	<1	<1	<1	<1	<1
Copper (Cu)	622.5	156	7700	<5	<5	<5	<5	<5
Lead (Pb)	2	0.5	23	<0.5	<0.5	<0.5	<0.5	<0.5
Manganese (Mn)	1200	300	15000	<50	<50	<50	<50	<50
Mercury (Hg)	7.5	1.9	94	<0.25	<0.25	<0.25	<0.25	<0.25
Nickel (Ni)	75	18.8	930	<5	<50	<5	<5	<5
Selenium (Se)	37.5	9.4	460	<1	<1	<1	<1	<1
Strontium (Sr)	4500	1125	56000	<50	<50	<50	<50	<50
Tin (Sn)	15000	3750	180000	<0.1	<0.1	<0.1	<0.1	<0.1
Organic Tin	0.9	0.2	12	Not Conducted ^A				
Zinc (Zn)	3750	938	46000	<50	<50	<50	<50	<50

Results of Analysis – PASS Further analysis has been conducted to determine levels of Chromium (VI) on samples 3, 4, 5, 6 and 7.

Sample Ref:	Sample Description & Location	Category		
		I	II	III
1.	Blue textile			✓
2.	Green textile			✓
3.	Yellow and red textile			✓
4.	Purple textile			✓
5.	Red textile			✓

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Adjusted Analytical Results: Results Quoted as mg of soluble element per Kg material.

	Category Limits			Sample Reference	
	I	II	III	6	7
Aluminium (Al)	2250	560	28130	<50	<50
Antimony (Sb)	45	11.3	560	<1	<1
Arsenic (As)	3.8	0.9	47	<0.15	<0.15
Barium (Ba)	1500	375	18750	<50	<50
Boron (B)	1200	300	15000	<50	<50
Cadmium (Cd)	1.3	0.3	17	<0.15	<0.15
Chromium (Cr)	-	-	-	0.38	0.59
Chromium (III) (Cr (III)) ^{#1}	37.5	9.4	460	#	#
Chromium(VI) (Cr (VI)) ^{#2}	0.02	0.005	0.053	<0.053	<0.053
Cobalt (Co)	10.5	2.6	130	<1	<1
Copper (Cu)	622.5	156	7700	<5	<5
Lead (Pb)	2	0.5	23	<0.5	<0.5
Manganese (Mn)	1200	300	15000	<50	<50
Mercury (Hg)	7.5	1.9	94	<0.25	<0.25
Nickel (Ni)	75	18.8	930	<5	<5
Selenium (Se)	37.5	9.4	460	<1	<1
Strontium (Sr)	4500	1125	56000	<50	<50
Tin (Sn)	15000	3750	180000	<0.1	<0.1
Organic Tin	0.9	0.2	12	Not Conducted ^a	
Zinc (Zn)	3750	938	46000	<50	<50

Sample Ref:	Sample Description & Location	Category		
		I	II	III
6.	Pink textile			✓
7.	Dark green textile			✓

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Note : - mg/kg = milligram per kilogram
 - 1% = 10000 mg/kg = 10000 ppm

- # Levels of Soluble Chromium (III) & Chromium (VI) were not separately determined.

The level of Soluble Chromium detected on all samples did not exceed the stricter limit for Chromium (III) as specified in BSEN 71-3:2019+A1:2021

The level of Soluble Chromium detected on samples 1 and 2 did not exceed the stricter limit for Chromium (VI) as specified in BSEN 71-3:2019+A1:2021

As the level of Soluble Chromium on samples 3, 4, 5, 6 and 7 detected exceeded the stricter limit for Chromium (VI) as specified in BSEN 71-3:2019+A1:2021 further testing has been conducted to determine the levels of Chromium (VI)

#1 – Non UKAS – Chromium (III) levels are determined from: Chromium level – Chromium (VI) level (or reported as <5ppm ~ *whichever is greater*)

#2 – Non UKAS – Chromium (VI) levels assessed and determined by IC-UV method.

- ^ The level of Soluble Organic Tin was not determined.

The level of Soluble Tin, after conversion, detected on all samples did not exceed the stricter limit for Organic Tin as specified in BSEN 71-3:2019+A1:2021

Note: Any statement of conformity made in this report unless otherwise stated in the above test specification(s) is in line with SGS United Kingdom (Bradford) Decision rule BRAD-GEN-049. Details can be found on the following link [SGS United Kingdom Ltd \(Bradford\) – ISO 17025 Clause 7.1.3 – Decision Rule V6](#)

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