



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

Test Report No. BTO 273177/1
Issue Date: 12th November 2019

Attn: Joanne Holroyd

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

Sample Name: 4 Balls of Hand Knitting Yarn. 7117 Sage, 1312 Baby Denim, 1435 Bright Pink, 3965 Grey Blue.

Sample Description: 4 balls of knitting yarn in different colours.

Sample Submitted: 18th October 2019

Testing Period: Testing conducted between 30th October 2019 and 4th November 2019
(Please note that this testing was conducted at another laboratory within the SGS group of companies)

Tests Requested: Please refer to the result summary.

Test Method & Results: Please refer to next page(s)

Result Summary:

Test Requested	Conclusion
Directive 2009/48/EC and its amendment – EN71-3:2019 Migration of certain elements	Pass

Signed for and on behalf of
SGS United Kingdom Ltd.

Chris Walker, BSc (Hons)
Technical Manager

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APPENDIX

Test Results:

Directive 2009/48/EC and its Amendments EN71-3:2019 – Migration of certain elements

Category III: Scrapped-off toy material

Method: With reference to EN 71 Part 3:2019. Analysis of general elements was performed by ICP- OES.

Test Item(s)	Result(s) (mg/kg)		Reporting Limit (mg/kg)	Permissible Limit (EN71-3:2013 + A3:2018) (mg/kg)
	1	2		
Specimen No.	1	2	-	-
Mass of trace amount (mg)	--	--	-	-
Soluble Aluminium (Al) (mg/kg)	ND	ND	50	70,000
Soluble Antimony (Sb) (mg/kg)	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	50	18,750
Soluble Boron (B) (mg/kg)	ND	ND	50	15,000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	5	17
Soluble Chromium (Cr) (mg/kg)	ND	ND	0.01	-
Soluble Chromium#(III) (Cr (III)) (mg/kg)	ND	ND	5	460
Soluble Chromium#(VI) (Cr(VI)) (mg/kg)	ND	ND	0.18 (0.01)* /(0.02)*	0.2 (0.053)*
Soluble Cobalt (Co) (mg/kg)	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	50	7,700
Soluble Lead (Pb) (mg/kg)	ND	ND	10	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	50	15,000
Soluble Mercury (Hg) (mg/kg)	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	50	56,000
Soluble Tin (Sn) (mg/kg)	ND	ND	4.9	180,000
Soluble Organic Tin [^] - (mg/kg)	ND	ND	-	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	50	46,000
Conclusion	PASS	PASS	-	-

Note:

- mg/kg = milligram per kilogram
- ND = Not Detected
- 1% = 10000mg/kg = 10000ppm
- [^] Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirements as specified in EN71-3:2013:2019
- * Effective date for new limit is November 18, 2019

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Directive 2009/48/EC and its Amendments EN71-3:2019 – Migration of certain elements
Category III: Scrapped-off toy material

Method: With reference to EN 71 Part 3:2019. Analysis of general elements was performed by ICP- OES.

Test Item(s)	Result(s) (mg/kg)		Reporting Limit (mg/kg)	Permissible Limit (EN71-3:2013 + A3:2018) (mg/kg)
	3	4		
Specimen No.	3	4	-	-
Mass of trace amount (mg)	--	--	-	-
Soluble Aluminium (Al) (mg/kg)	ND	ND	50	70,000
Soluble Antimony (Sb) (mg/kg)	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	50	18,750
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*** End of Report ***

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