

GREENSTIK MATERIALS LTD  
 UNIT 9  
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 CARNABY INDUSTRIAL ESTATE  
 BRIDLINGTON  
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 UNITED KINGDOM

**Test Report No. BTO 287029/1**  
**Issue Date: 04/03/2021**

Attn: Brett Gregory

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

**Sample Name:** GM Printable Matt HTV. GM Printable Glitter HTV.

**Sample Description:** Packs of flexible plastic sheet, 155mm square, with colour-printed circle (8 segments, each a different colour) 140mm diam. Two designs- with and without glitter.

**Sample Receiving Date:** 9<sup>th</sup> February 2021

**Testing Period:** Testing conducted between 12<sup>th</sup> February 2021 and 20<sup>th</sup> February 2021  
*(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 Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725 – 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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## Test Results:

### Directive 2009/48/EC and its Amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725 – EN71-3:2019 Migration of certain elements

Category III: Scraped-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 (EN71-3:2019) (mg/kg)
<b>Specimen No.</b>	<b>A7</b>	-	-
<b>Mass of trace amount (mg)</b>	--	-	-
Soluble Aluminium (Al)	ND	50	70,000
Soluble Antimony (Sb)	ND	10	560
Soluble Arsenic (As)	ND	10	47
Soluble Barium (Ba)	ND	50	18,750
Soluble Boron (B)	ND	50	15,000
Soluble Cadmium (Cd)	ND	5	17
Soluble Chromium (Cr)	ND	0.053	--
Soluble Chromium#(III) (Cr (III))	--	5	460
Soluble Chromium#(VI) (Cr(VI))	--	0.053	0.053
Soluble Cobalt (Co)	ND	10	130
Soluble Copper (Cu)	ND	50	7,700
Soluble Lead (Pb)	ND	10	23
Soluble Manganese (Mn)	ND	50	15,000
Soluble Mercury (Hg)	ND	10	94
Soluble Nickel (Ni)	ND	10	930
Soluble Selenium (Se)	ND	10	460
Soluble Strontium (Sr)	ND	50	56,000
Soluble Tin (Sn)	ND	4.9	180,000
Soluble Organic Tin <sup>^</sup>	--	--	12
Soluble Zinc (Zn)	ND	50	46,000
<b>Conclusion</b>	<b>PASS</b>	--	--

#### Note:

- mg/kg = milligram per kilogram
- ND = Not Detected (lower than MDL)
- 1% = 10000mg/kg = 10000ppm
- # The test result of soluble Chromium (III) and chromium (VI) were derived from soluble chromium screening and then confirmation test for soluble chromium (III) and soluble Chromium (VI) on component with soluble chromium exceeding the screening limit of 0.053 mg/kg soluble Cr.
- ^ The test result of soluble organic tin was derived from soluble tin screening and then confirmation test for soluble organic tin on component exceeding the screening limit of 4.9 mg/kg soluble Sn.

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**Directive 2009/48/EC and its Amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725 – EN71-3:2019 Migration of certain elements**

Category III: Scraped-off toy material

Method: With reference to EN 71 Part 3: 2019. Analysis of general elements was performed by ICP- OES and Chromium (III) was obtained by calculation, Chromium (VI) was analysed by IC-UV/VIS / LC-ICP-MS.

Test Item(s)	Result(s) (mg/kg)					Reporting Limit (mg/kg)	Permissible Limit (EN71-3:2019) (mg/kg)
	A1	A2	A3	A4	A5		
<b>Specimen No.</b>						-	-
<b>Mass of trace amount (mg)</b>	--	--	--	--	--	-	-
Soluble Aluminium (Al)	ND	ND	ND	ND	ND	50	70,000
Soluble Antimony (Sb)	ND	ND	ND	ND	ND	10	560
Soluble Arsenic (As)	ND	ND	ND	ND	ND	10	47
Soluble Barium (Ba)	ND	ND	ND	ND	ND	50	18,750
Soluble Boron (B)	ND	ND	ND	ND	ND	50	15,000
Soluble Cadmium (Cd)	ND	ND	ND	ND	ND	5	17
Soluble Chromium(III) (Cr (III))	ND	ND	ND	ND	ND	5	460
Soluble Chromium(VI) (Cr(VI))	ND	ND	ND	ND	ND	0.053	0.053
Soluble Cobalt (Co)	ND	ND	ND	ND	ND	10	130
Soluble Copper (Cu)	ND	ND	ND	ND	ND	50	7,700
Soluble Lead (Pb)	ND	ND	ND	ND	ND	10	23
Soluble Manganese (Mn)	ND	ND	ND	ND	ND	50	15,000
Soluble Mercury (Hg)	ND	ND	ND	ND	ND	10	94
Soluble Nickel (Ni)	ND	ND	ND	ND	ND	10	930
Soluble Selenium (Se)	ND	ND	ND	ND	ND	10	460
Soluble Strontium (Sr)	ND	ND	ND	ND	ND	50	56,000
Soluble Tin (Sn)	ND	ND	ND	ND	ND	4.9	180,000
Soluble Organic Tin <sup>^</sup>	--	--	--	--	--	--	12
Soluble Zinc (Zn)	ND	ND	ND	ND	ND	50	46,000
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	--	--

Note:

- mg/kg = milligram per kilogram
- ND = Not Detected
- 1% = 10000mg/kg = 10000ppm
- <sup>^</sup> The test result of soluble organic tin was derived from soluble tin screening and then confirmation test for soluble organic tin on component exceeding the screening limit of 4.9 mg/kg soluble Sn.
- Soluble Chromium (III) – Soluble Total Chromium – Soluble Chromium (VI)

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**Directive 2009/48/EC and its Amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725 – EN71-3:2019 Migration of certain elements**

Category III: Scraped-off toy material

Method: With reference to EN 71 Part 3: 2019. Analysis of general elements was performed by ICP- OES and Chromium (III) was obtained by calculation, Chromium (VI) was analysed by IC-UV/VIS / LC-ICP-MS.

Test Item(s)	Result(s) (mg/kg)					Reporting Limit (mg/kg)	Permissible Limit (EN71-3:2019) (mg/kg)
	A6	A8	A9	A10	A11		
<b>Specimen No.</b>						-	-
<b>Mass of trace amount (mg)</b>	--	--	--	--	--	-	-
Soluble Aluminium (Al)	ND	ND	ND	ND	ND	50	70,000
Soluble Antimony (Sb)	ND	ND	ND	ND	ND	10	560
Soluble Arsenic (As)	ND	ND	ND	ND	ND	10	47
Soluble Barium (Ba)	ND	ND	ND	ND	ND	50	18,750
Soluble Boron (B)	ND	ND	ND	ND	ND	50	15,000
Soluble Cadmium (Cd)	ND	ND	ND	ND	ND	5	17
Soluble Chromium(III) (Cr (III))	ND	ND	ND	ND	ND	5	460
Soluble Chromium(VI) (Cr(VI))	ND	ND	ND	ND	ND	0.053	0.053
Soluble Cobalt (Co)	ND	ND	ND	ND	ND	10	130
Soluble Copper (Cu)	ND	ND	ND	ND	ND	50	7,700
Soluble Lead (Pb)	ND	ND	ND	ND	ND	10	23
Soluble Manganese (Mn)	ND	ND	ND	ND	ND	50	15,000
Soluble Mercury (Hg)	ND	ND	ND	ND	ND	10	94
Soluble Nickel (Ni)	ND	ND	ND	ND	ND	10	930
Soluble Selenium (Se)	ND	ND	ND	ND	ND	10	460
Soluble Strontium (Sr)	ND	ND	ND	ND	ND	50	56,000
Soluble Tin (Sn)	ND	ND	ND	ND	ND	4.9	180,000
Soluble Organic Tin <sup>^</sup>	--	--	--	--	--	--	12
Soluble Zinc (Zn)	ND	ND	ND	ND	ND	50	46,000
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	--	--

Note:

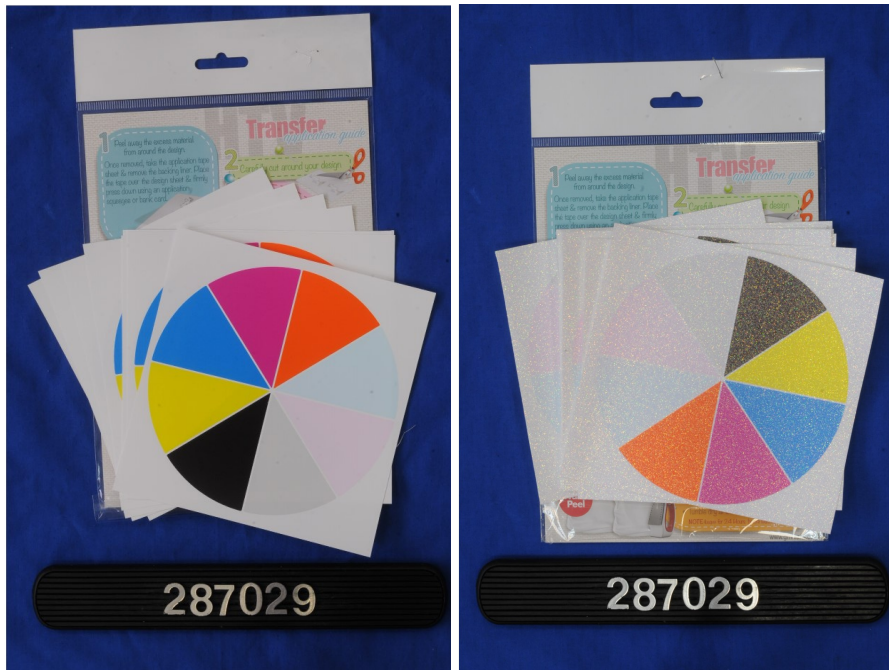
- mg/kg = milligram per kilogram
- ND = Not Detected
- 1% = 10000mg/kg = 10000ppm
- <sup>^</sup> The test result of soluble organic tin was derived from soluble tin screening and then confirmation test for soluble organic tin on component exceeding the screening limit of 4.9 mg/kg soluble Sn.
- Soluble Chromium (III) – Soluble Total Chromium – Soluble Chromium (VI)

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### Sample List

Material No	Component	Colour
A1	Matt outer main - Plastic	White
A2	Glitter outer main - Plastic	White
A3	Back main - Plastic	Transparent
A4	Dye	Black
A5	Dye	Yellow
A6	Dye	Cyan
A7	Dye	Magenta
A8	Dye	Orange
A9	Dye	Light Cyan
A10	Dye	Light Magenta
A11	Dye	Light Black



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\*\*\*End of Report\*\*\*

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