

TEST REPORT

NUMBER: LTR20060052A

APPLICANT: Ivory Graphics Ltd
Unit 2,55 Thorby Avenue
March
Cambs.
PE15 0AZ

DATE: 14th July 2020

SAMPLE DESCRIPTION: Deck of Card In Laminated Tuck Box

REFERENCE / STYLE NO.: Not specified

RETAILER: Not specified

SAMPLE RECEIVED: 9th June 2020

PURCHASE ORDER: None

TEST REQUEST: ^BS EN 71-1: 2014 + A1:2018, EN 71-1:2014 + A1:2018
^BS EN 71-2: 2011 + A1:2014, EN 71-2:2011 + A1:2014
^BS EN 71-3: 2019, EN 71-3: 2019

CONCLUSION: The results of the tests carried out **MEET** the requirements of the requested Standards.

Tests marked (^) in this report are included in the scope of accreditation of the sub-contractor who performed the test.

Tests marked (*) in this report are not included in our UKAS scope of accreditation.

Tests marked (**) in this report are not included in the scope of accreditation of the sub-contractor who performed the test.

Opinions, interpretations and comments expressed herein are outside the scope of accreditation.



GEORGE CARTER
Technician
HARDLINES



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The Design and Manufacture of all types of Playing Cards

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NUMBER: LTR20060052A

This report details the clauses appropriate to this item. Those clauses not referred to were considered not applicable.

Specification: **BS EN 71-1: 2014+A1:2018, EN 71-1: 2014+A1:2018 Safety of toys – Specification for Mechanical and physical properties**

*The item was not considered as a toy, this standard was applied by the request of the applicant.
 There was no age information on the toy or its packaging.
 The item was tested for children aged over 36 months.
 The item was packed in a cardboard box which was considered to be for retention.*

SECTION	TEST	RESULTS
4	GENERAL REQUIREMENTS	
4.1	Material Cleanliness	Pass
4.7	Edges	Pass
4.8	Points & Metallic Wires	Pass
7	<p>WARNINGS & INSTRUCTIONS FOR USE</p> <p><i>The text of this note is for information only and the indents do not constitute requirements of this European Standard. The information is not exhaustive and Directive 2009/48/EC and the associated guidance documents should be consulted for further details.</i></p> <p><i>The toy or, its packaging or document accompanying must be labelled with:</i></p> <ul style="list-style-type: none"> - The name and address of the manufacturer** (Not Present) - The name and address of the importer.** (Not Present) - Type, batch, serial or model number or other element allowing of toy identification (Not Present) - A CE mark in the correct shape and size. (Not Present) - Warning and other information should be in the national language(s) of the countries where the toy is marketed. <p><i>** In the case of the toy sell in European countries, the toy, its packaging or document accompanying must be labelled with the name and address of the manufacturer and importer.</i></p>	See comments

Specification: **BS EN 71-2: 2011 + A1:2014, EN 71-2:2011 + A1:2014 – Flammability**

SECTION	TEST	RESULTS
4.1	GENERAL	
	Celluloid/cellulose nitrate and materials with a similar burning behaviour in fire	Pass

Date of Testing: 3rd-13th July 2020



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NUMBER: LTR20060052A

Specification: BS EN 71-3:2019, EN 71-3:2019

Acid extraction method was used and migration elements content were determined by Inductively Coupled Plasma-ICP-MS

Category	TEST	RESULTS
III	Scraped off toy material	Pass

Note: The results for chromium (III), chromium (VI) and organic tin are based on the overall migration of chromium and tin respectively and specific testing for these chemicals was not carried out (unless confirmation testing is indicated). This is in accordance with Annex I of the standard.

MATERIALS SAMPLED

No.	DESCRIPTION	Sample weight (<100mg)
	CATEGORY III – SCRAPED OFF	
1	Transparent cellophane wrapper	
2	White inner paper box	
3	Multicolour paper	

Where sample weights are written above these were less than 100 mg. The migration results below for these samples have been calculated as though the sample weight were 100 mg.

CATEGORY III - SCRAPED OFF

Element	Analytical Results																Theoretical Maximum Results			
	Sb	As	Ba	Cd	Cr	Pb	Hg	Se	Al	B	Co	Cu	Mn	Ni	Sr	Sn	Zn	Cr (III)	#Cr (VI)	##OT
EN71-3 Limit	560	47	18750	17	–	23	94	460	70000	15000	130	7700	15000	930	56000	180000	46000	460	0.053	12
1	<0.2	<0.1	<100	<0.12 5	<0.00 4	0.6	<0.05	<3	<400	<100	<0.5	<50	<100	<6	<250	<0.2	<300	<0.004	<0.00 4	<0.2
2	<0.2	<0.1	<100	<0.12 5	<0.00 4	<0.12 5	<0.05	<3	<400	<100	<0.5	<50	<100	<6	<250	<0.2	<300	<0.004	<0.00 4	<0.2
3	<0.2	<0.1	<100	<0.12 5	<0.00 4	<0.12 5	<0.05	<3	<400	<100	<0.5	<50	<100	<6	<250	<0.2	<300	<0.004	<0.00 4	<0.2

The reporting limits are as stated in the table above.

OT = Organic tin

All results and the limits are quoted as mg/kg (ppm) of the named material.

† Sample weight of items marked with a cross was less than 100mg. The toxic metal content has been calculated as though the sample weight were 100mg.

Actual levels of chromium (III) or chromium (VI) have not been determined in this analysis, only overall levels of migratable chromium (III) have been analysed: the maximum theoretical amount of chromium (VI) will be equal to or

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less than the number reported above. Where the value in either of these columns is greater than the associated limit we would advise further testing to accurately determine chromium (III) chromium (VI) levels.

In the case of Category 2 samples we advise testing for chromium (III) and chromium (VI) is carried out on all samples due to the very low PASS/FAIL limit related to these materials

Actual levels of organic tin have not been determined in this analysis: the maximum theoretical amount of any single organic tin can be different. The result for organic tin presented is calculated as if all the tin were present as TBT (Tri-butyl Tin) only.

Date of Testing: 3rd-13th July 2020

END OF REPORT

This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct.

Conformity statements contained within this report consider the uncertainty of measurement with a 95% coverage probability (where applicable) in their determination, unless specified otherwise.



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The Design and Manufacture of all types of Playing Cards

TEST REPORT

NUMBER: LTR20060051A

APPLICANT: Ivory Graphics Ltd
Unit 2,55 Thorby Avenue
March
Cambs.
PE15 0AZ

DATE: 14th July 2020

SAMPLE DESCRIPTION: 2 Part Rigid Box and Cards

REFERENCE / STYLE NO.: Not specified

RETAILER: Not specified

SAMPLE RECEIVED: 9th June 2020

PURCHASE ORDER: None

TEST REQUEST: ^BS EN 71-1: 2014 + A1:2018, EN 71-1:2014 + A1:2018
^BS EN 71-2: 2011 + A1:2014, EN 71-2:2011 + A1:2014
^BS EN 71-3: 2019, EN 71-3: 2019

CONCLUSION: The results of the tests carried out **MEET** the requirements of the requested Standards.

Tests marked (^) in this report are included in the scope of accreditation of the sub-contractor who performed the test.
Tests marked (*) in this report are not included in our UKAS scope of accreditation.
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NUMBER: LTR20060051A

This report details the clauses appropriate to this item. Those clauses not referred to were considered not applicable.

Specification: **BS EN 71-1: 2014+A1:2018, EN 71-1: 2014+A1:2018 Safety of toys – Specification for Mechanical and physical properties**

*The item was not considered as a toy, this standard was applied by the request of the applicant.
 There was no age information on the toy or its packaging.
 The item was tested for children aged over 36 months.
 The item was packed in a cardboard box which was considered to be for retention.*

SECTION	TEST	RESULTS
4	GENERAL REQUIREMENTS	
4.1	Material Cleanliness	Pass
4.7	Edges	Pass
4.8	Points & Metallic Wires	Pass
7	<p>WARNINGS & INSTRUCTIONS FOR USE</p> <p><i>The text of this note is for information only and the indents do not constitute requirements of this European Standard. The information is not exhaustive and Directive 2009/48/EC and the associated guidance documents should be consulted for further details.</i></p> <p><i>The toy or, its packaging or document accompanying must be labelled with:</i></p> <ul style="list-style-type: none"> - <i>The name and address of the manufacturer** (Not Present)</i> - <i>The name and address of the importer.** (Not Present)</i> - <i>Type, batch, serial or model number or other element allowing of toy identification (Not Present)</i> - <i>A CE mark in the correct shape and size. (Not Present)</i> - <i>Warning and other information should be in the national language(s) of the countries where the toy is marketed.</i> <p><i>** In the case of the toy sell in European countries, the toy, its packaging or document accompanying must be labelled with the name and address of the manufacturer and importer.</i></p>	See comments

Specification: **BS EN 71-2: 2011 + A1:2014, EN 71-2:2011 + A1:2014 – Flammability**

SECTION	TEST	RESULTS
4.1	GENERAL	
	Celluloid/cellulose nitrate and materials with a similar burning behaviour in fire	Pass

Date of Testing: 3rd-13th July 2020



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NUMBER: LTR20060051A

Specification: BS EN 71-3:2019, EN 71-3:2019

Acid extraction method was used and migration elements content were determined by Inductively Coupled Plasma-ICP-MS

Category	TEST	RESULTS
III	Scraped off toy material	Pass

Note: The results for chromium (III), chromium (VI) and organic tin are based on the overall migration of chromium and tin respectively and specific testing for these chemicals was not carried out (unless confirmation testing is indicated). This is in accordance with Annex I of the standard.

MATERIALS SAMPLED

No.	DESCRIPTION	Sample weight (<100mg)
CATEGORY III – SCRAPED OFF		
1	White back cover	
2	Multicolour printed cover	
3	White paper with multicolour print	
4	Multicolour carton	
5	Multicolour paper box	
6	White paper box	

Where sample weights are written above these were less than 100 mg. The migration results below for these samples have been calculated as though the sample weight were 100 mg.

CATEGORY III - SCRAPED OFF

Element	Analytical Results																	Theoretical Maximum Results		
	Sb	As	Ba	Cd	Cr	Pb	Hg	Se	Al	B	Co	Cu	Mn	Ni	Sr	Sn	Zn	Cr (III)	#Cr (VI)	##OT
EN71-3 Limit	560	47	18750	17	–	23	94	460	70000	15000	130	7700	15000	930	56000	180000	460000	460	0.053	12
1	<0.2	<0.1	3.5	<0.12 5	<0.00 4	<0.12 5	<0.05	<3	95.1	<0.12 5	<0.5	<50	8.9	<6	192.9	<0.2	43.7	<0.004	<0.00 4	<0.2
2	<0.2	<0.1	4.2	<0.12 5	<0.00 4	<0.12 5	<0.05	<3	106.1	<0.12 5	<0.5	<50	9.1	<6	191.8	<0.2	108.1	<0.004	<0.00 4	<0.2
3	<0.2	<0.1	4.4	<0.12 5	<0.00 4	<0.12 5	<0.05	<3	<0.12 5	<0.12 5	<0.5	<50	13.0	<6	263.9	<0.2	<0.125	<0.004	<0.00 4	<0.2
4	<0.2	<0.1	3.8	<0.12 5	<0.00 4	<0.12 5	<0.05	<3	72.3	<0.12 5	<0.5	<50	8.0	<6	159.4	<0.2	12.6	<0.004	<0.00 4	<0.2
5	<0.2	<0.1	2.0	<0.12 5	<0.00 4	<0.12 5	<0.05	<3	74.1	<0.12 5	<0.5	<50	21.9	<6	66.2	<0.2	5.5	<0.004	<0.00 4	<0.2

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NUMBER: LTR20060051A

Element	Analytical Results																Theoretical Maximum Results			
	Sb	As	Ba	Cd	Cr	Pb	Hg	Se	Al	B	Co	Cu	Mn	Ni	Sr	Sn	Zn	Cr (III)	#Cr (VI)	##OT
EN71-3 Limit	560	47	18750	17	-	23	94	460	70000	15000	130	7700	15000	930	56000	180000	46000	460	0.053	12
6	<0.2	<0.1	5.9	<0.12 5	<0.00 4	<0.12 5	<0.05	<3	22.9	2.8	<0.5	<50	21.2	<6	337.3	<0.2	1.5	<0.004 4	<0.00 4	<0.2

The reporting limits are as stated in the table above.

OT = Organic tin

All results and the limits are quoted as mg/kg (ppm) of the named material.

† Sample weight of items marked with a cross was less than 100mg. The toxic metal content has been calculated as though the sample weight were 100mg.

Actual levels of chromium (III) or chromium (VI) have not been determined in this analysis, only overall levels of migratable chromium (III) have been analysed: the maximum theoretical amount of chromium (VI) will be equal to or less than the number reported above. Where the value in either of these columns is greater than the associated limit we would advise further testing to accurately determine chromium (III) chromium (VI) levels.

In the case of Category 2 samples we advise testing for chromium (III) and chromium (VI) is carried out on all samples due to the very low PASS/FAIL limit related to these materials

Actual levels of organic tin have not been determined in this analysis: the maximum theoretical amount of any single organic tin can be different. The result for organic tin presented is calculated as if all the tin were present as TBT (Tri-butyl Tin) only.

Date of Testing: 3rd-13th July 2020

END OF REPORT

This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct.

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The Design and Manufacture of all types of Playing Cards

TEST REPORT

NUMBER: LTR20060050A

APPLICANT: Ivory Graphics Ltd
Unit 2,55 Thorby Avenue
March
Cambs.
PE15 0AZ

DATE: 14th July 2020

SAMPLE DESCRIPTION: Game Board

REFERENCE / STYLE NO.: Not specified

RETAILER: Not specified

SAMPLE RECEIVED: 9th June 2020

PURCHASE ORDER: None

TEST REQUEST: ^BS EN 71-1: 2014 + A1:2018, EN 71-1:2014 + A1:2018
^BS EN 71-2: 2011 + A1:2014, EN 71-2:2011 + A1:2014
^BS EN 71-3: 2019, EN 71-3: 2019

CONCLUSION: The results of the tests carried out **MEET** the requirements of the requested Standards.

Tests marked (^) in this report are included in the scope of accreditation of the sub-contractor who performed the test.
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GEORGE CARTER
Technician
HARDLINES



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The Design and Manufacture of all types of Playing Cards

TEST REPORT

NUMBER: LTR20060050A

This report details the clauses appropriate to this item. Those clauses not referred to were considered not applicable.

Specification: **BS EN 71-1: 2014+A1:2018, EN 71-1: 2014+A1:2018 Safety of toys – Specification for Mechanical and physical properties**

*The item was not considered as a toy, this standard was applied by the request of the applicant.
 There was no age information on the toy or its packaging.
 The item was tested for children aged over 36 months.*

SECTION	TEST	RESULTS
4	GENERAL REQUIREMENTS	
4.1	Material Cleanliness	Pass
4.7	Edges	Pass
4.8	Points & Metallic Wires	Pass
6	Packaging <i>Final packaging was not submitted with the sample. If plastic bags are to be used they must confirm to the requirements of EN71 Clause 6.</i>	See comments
7	WARNINGS & INSTRUCTIONS FOR USE <i>The text of this note is for information only and the indents do not constitute requirements of this European Standard. The information is not exhaustive and Directive 2009/48/EC and the associated guidance documents should be consulted for further details.</i> <i>The toy or, its packaging or document accompanying must be labelled with:</i> <ul style="list-style-type: none"> - The name and address of the manufacturer** (Not Present) - The name and address of the importer.** (Not Present) - Type, batch, serial or model number or other element allowing of toy identification (Not Present) - A CE mark in the correct shape and size. (Not Present) - Warning and other information should be in the national language(s) of the countries where the toy is marketed. ** In the case of the toy sell in European countries, the toy, its packaging or document accompanying must be labelled with the name and address of the manufacturer and importer.	See comments

Date of Testing: 3rd-13th July 2020



TEST REPORT

NUMBER: LTR20060050A

Specification: BS EN 71-2: 2011 + A1:2014, EN 71-2:2011 + A1:2014 – Flammability

SECTION	TEST	RESULTS
4.1	GENERAL	
	Celluloid/cellulose nitrate and materials with a similar burning behaviour in fire	Pass

Date of Testing: 3rd-13th July 2020

Specification: BS EN 71-3:2019, EN 71-3:2019

Acid extraction method was used and migration elements content were determined by Inductively Coupled Plasma-ICP-MS

Category	TEST	RESULTS
III	Scraped off toy material	Pass

Note: The results for chromium (III), chromium (VI) and organic tin are based on the overall migration of chromium and tin respectively and specific testing for these chemicals was not carried out (unless confirmation testing is indicated). This is in accordance with Annex I of the standard.

MATERIALS SAMPLED

No.	DESCRIPTION	Sample weight (<100mg)
	CATEGORY III – SCRAPED OFF	
1	Multicolour front panel	
2	Black back carton	
3	Grey inner carton	

Where sample weights are written above these were less than 100 mg. The migration results below for these samples have been calculated as though the sample weight were 100 mg.

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CATEGORY III - SCRAPED OFF

Element	Analytical Results																Theoretical Maximum Results			
	Sb	As	Ba	Cd	Cr	Pb	Hg	Se	Al	B	Co	Cu	Mn	Ni	Sr	Sn	Zn	Cr (III)	#Cr (VI)	##OT
EN71-3 Limit	560	47	18750	17	-	23	94	460	70000	15000	130	7700	15000	930	56000	180000	46000	460	0.053	12
1	<0.2	<0.1	<100	<0.125	<0.004	<0.125	<0.05	<3	<400	<100	<0.5	<50	<100	<6	<250	<0.2	<300	<0.004	<0.004	<0.2
2	<0.2	<0.1	<100	<0.125	<0.004	<0.125	<0.05	<3	776.5	<100	<0.5	<50	<100	<6	<250	<0.2	<300	<0.004	<0.004	<0.2
3	<0.2	<0.1	<100	<0.125	<0.004	<0.125	<0.05	<3	686.1	<100	<0.5	<50	<100	<6	<250	<0.2	<300	<0.004	<0.004	<0.2

The reporting limits are as stated in the table above.

OT = Organic tin

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† Sample weight of items marked with a cross was less than 100mg. The toxic metal content has been calculated as though the sample weight were 100mg.

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In the case of Category 2 samples we advise testing for chromium (III) and chromium (VI) is carried out on all samples due to the very low PASS/FAIL limit related to these materials

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Date of Testing: 3rd-13th July 2020

END OF REPORT

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The Design and Manufacture of all types of Playing Cards