



Test Report

Date : 2021-02-03

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No. : SP21010289

Applicant : Hayes Specialties Corporation
1761 East Genesee Saginaw, MI 48601-2407

Description of Samples : One (1) group of submitted samples said to be:
53482-53481-53483/4/5/6/7/8-Magnetic Bingo Kit- 1 Wand and
100 Chips
15379- Bingo Ball- Small 5 Color With Clear Cover Over Each
Number Hard Plastic-75
20100- Raffle Balls 1-100 Number Set 20MM
20200-Raffle Balls 101-200 Number Set 20MM
SH20300-Special Order Raffle Balls 201-300 Number Set
20mm Red
SH20400-Special Order Raffle Balls 201-300 Number Set
20mm Red
SH20500--Special Order Raffle Balls 401-500 Number Set
20mm Red
COUNTRY OF ORIGIN: CHINA
AGE GRADING FOR APPLICANT: 3+

Date Samples Received : 2021-01-27

Date Tested : 2021-01-27 to 2021-02-03

Requirements

- | |
|--|
| 1. ASTM Standard Consumer Safety Specification For Toy Safety F 963-17
- heavy metal test |
| 2. US Consumer Product Safety Improvement Act
- Total Lead content in substrate in accordance with Sec. 101(a).
- Phthalates content in accordance with Sec 108 and 16 CFR 1307. |
| 3. The Total Lead content requirements according to the California Proposition 65 |
| 4. The BBP, DBP, DEHP, DnHP, DINP and DIDP content requirements according to the
California Proposition 65. |
| 5. Total cadmium content requirements according to the California Proposition 65. |
| 6. The Total Lead content requirements according to Illinois Public Act 095-1019 |
| 7. The Phthalates content requirements according to California Assembly Bill NO.1108 |
| 8. San Francisco Health Code
- Phthalates content in accordance with Article 34, sec 34.2 |

HUANG Qinglai, Owen
Authorized Signatory



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The following test item(s) was/were performed on submitted sample(s) and/or components confirmed by applicant.

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Item No.	Component Description
Plastic materials:	
<u>1</u>	(53482)plastic: blue
<u>2</u>	(53482)plastic: transparent blue
<u>3</u>	(15379)(20100)(20200)(SH20300)(SH20400)(SH20500)plastic: transparent
<u>4</u>	(15379)(20100)(20200)(SH20300)(SH20400)(SH20500)plastic: red
<u>5</u>	(15379)plastic: yellow
<u>6</u>	(15379)plastic: white
<u>7</u>	(15379)plastic: blue
<u>8</u>	(15379)plastic: green
Metal materials:	
<u>9</u>	(53482)ring: silver

Test Results:

1.ASTM Standard Consumer Safety Specification for Toy Safety F 963-17

1.1 Heavy metal test

Ref.: ASTM F963-17 Section 4.3.5

Method: ASTM F963-17 Section 8.3

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

4.3.5.2 Toys Substrate Materials

Total lead analysis

<u>Sample</u>	<u>Result</u>	<u>Limit</u>	<u>Conclusion</u>
<u>1+2+3</u>	<10ppm	100ppm	Pass
<u>4+5+6</u>	<10ppm	100ppm	Pass
<u>7+8</u>	<10ppm	100ppm	Pass
<u>9</u>	<10ppm	100ppm	Pass

Soluble metals test

	<u>2</u>	<u>3</u>	<u>4</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	500ppm
<u>Conclusion</u>	Pass	Pass	Pass	-

Note: < denotes less than.

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Test Results:

2. US Consumer Product Safety Improvement Act

2.1 Children's products containing lead - Total Lead content in substrate

Ref.: CPSIA Sec 101(a)

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Sample</u>	<u>Result</u>	<u>Limit</u>	<u>Conclusion</u>
1+2+3	<10ppm	100ppm	Pass
4+5+6	<10ppm	100ppm	Pass
7+8	<10ppm	100ppm	Pass
9	<10ppm	100ppm	Pass

Note: < denotes less than.

2.2 Phthalates content

Ref.: CPSIA Sec 108 and 16 CFR PART 1307

Determined by: Gas Chromatography with Mass Selective Detector

<u>Test Item</u>	<u>CAS No.</u>	<u>Result(ppm)</u>			<u>Limit (ppm)</u>
		1+2+3	4+5+6	7+8	
Di-n-butyl phthalate (DBP)	84-74-2	<100	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<100	<100	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	<100	<100	1000
Di-n-pentyl phthalate(DPENP)	131-18-0	<100	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	<100	1000
<u>Conclusion</u>	-	Pass	Pass	Pass	-

Note: < denotes less than.

3. The Total Lead Content

Ref.: California Proposition 65

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Sample</u>	<u>Result</u>	<u>Limit</u>	<u>Conclusion</u>
1+2+3	<10ppm	100ppm	Pass
4+5+6	<10ppm	100ppm	Pass
7+8	<10ppm	100ppm	Pass
9	<10ppm	100ppm	Pass

Note: < denotes less than.

4. The BBP, DBP, DEHP, DnHP, DINP and DIDP content

Ref.: California Proposition 65

Determined by: Gas Chromatography with Mass Selective Detector

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Test Results:

	1+2+3	4+5+6	7+8
- Di-n-butyl phthalate (DBP)	<100ppm	<100ppm	<100ppm
- Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm
- Di (2-ethylhexyl) phthalate (DEHP)	<100ppm	<100ppm	<100ppm
- Di-n-Hexyl phthalate (DnHP)	<100ppm	<100ppm	<100ppm
- Di-iso-nonyl phthalate(DINP)	<100ppm	<100ppm	<100ppm
- Di-iso-decyl phthalate(DIDP)	<100ppm	<100ppm	<100ppm

Requirement: Each of the above phthalates shall not be greater than 1000ppm by mass of the tested material.

Note: < denotes less than.

5. The Total cadmium content

Ref.: California Proposition 65

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Sample</u>	<u>Result</u>	<u>Limit</u>	<u>Conclusion</u>
1+2+3	<5ppm	75ppm	Pass
4+5+6	<5ppm	75ppm	Pass
7+8	<5ppm	75ppm	Pass
9	<5ppm	75ppm	Pass

Note: < denotes less than.

6. The Total Lead Content requirements according to Illinois Public Act 095-1019

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Sample</u>	<u>Result</u>	<u>Limit</u>	<u>Conclusion</u>
1+2+3	<10ppm	40ppm	Pass
4+5+6	<10ppm	40ppm	Pass
7+8	<10ppm	40ppm	Pass
9	<10ppm	40ppm	Pass

Note: < denotes less than.

7. Phthalates content

Ref.: California Assembly Bill NO.1108

Determined by: Gas Chromatography with Mass Selective Detector

A. Any toy or children article

<u>Test Item</u>	<u>CAS No.</u>	<u>Result(ppm)</u>			<u>Limit(ppm)</u>
		<u>1+2+3</u>	<u>4+5+6</u>	<u>7+8</u>	
Dibutyl phthalate(DBP)	84-74-2	<100	<100	<100	1000
Butyl benzyl phthalate (BBP)	85-68-7	<100	<100	<100	1000
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<100	<100	<100	1000
Conclusion	-	Pass	Pass	Pass	-

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Test Results:

B. Any toys and children articles which can be placed in mouth for children under 3 years

Test Item	CAS No.	Result(ppm)			Limit(ppm)
		1+2+3	4+5+6	7+8	
Di-n-octyl phthalate(DNOP)	117-84-0	<100	<100	<100	1000
Di-iso-decyl phthalate(DIDP)	26761-40-0	<100	<100	<100	1000
Di-iso-nonyl phthalate(DINP)	28553-12-0	<100	<100	<100	1000
<u>Conclusion</u>	-	Pass	Pass	Pass	-

Note: < denotes less than.

8. Phthalates content

Ref.: San Francisco Health Code Article 34, sec 34.2

Determined by: Gas Chromatography with Mass Selective Detector

	1+2+3	4+5+6	7+8
- Di-n-butyl phthalate (DBP)	<100ppm	<100ppm	<100ppm
- Benzyl-n-butyl phthalate (BBP)	<100ppm	<100ppm	<100ppm
- Di (2-ethylhexyl) phthalate (DEHP)	<100ppm	<100ppm	<100ppm
- Di-n-octyl phthalate(DNOP)	<100ppm	<100ppm	<100ppm
- Di-iso-nonyl phthalate(DINP)	<100ppm	<100ppm	<100ppm
- Di-iso-decyl phthalate(DIDP)	<100ppm	<100ppm	<100ppm
<u>Conclusion</u>	Pass	Pass	Pass

Requirement: Each of the above phthalates shall not be greater than 1000ppm by mass of the tested material.

Note: < denotes less than.

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The photo of submitted samples



***** End of Test Report *****

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