

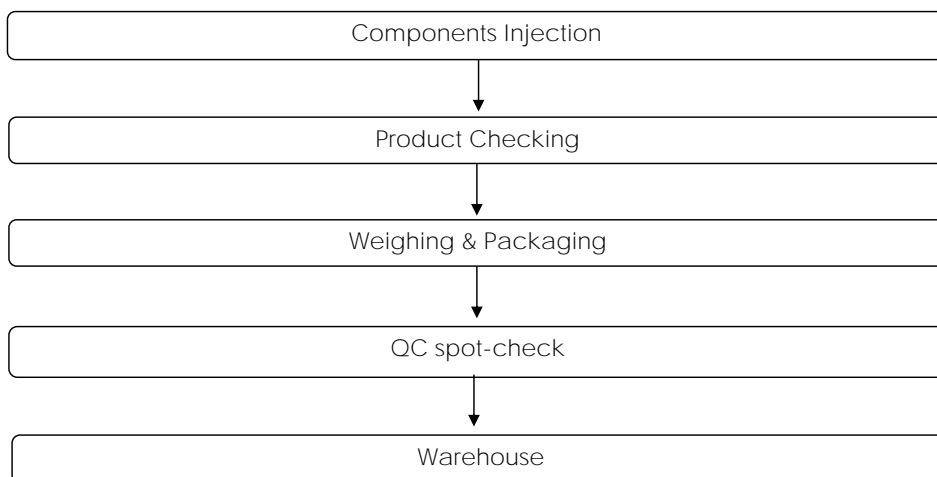
Technical Documentation

A. Detailed Description of the Design and Manufacture

1. Product : 1cm Cubes and 1cm Interlocking Cubes
Product Item Code :12210-12219, 122100-122199, 12210C, 13510-13519, 135100-135199
2. Product Image :




3. Detailed description of the design
Each cube displaces 1 cubic centimeter of water. Teach operations, sorting, graphing, perimeter, area, volume, patterns, chance, weight and measurement.
4. Detailed description of manufacture



5. The age suitability : For age 6 years and up

6. BOM (Bill of Material)

| Product : 1cm Cubes and 1cm Interlocking Cubes | | | | |
|----------------------------------------------------------------------------|---------------------|--------------------------------|-------------------|------------------|
| Product Item Code : 12210-12219, 122100-122199, 13510-13519, 135100-135199 | | | | |
| Part Number | Description | Material, Substance, Component | CAS, EINECS or CI | SDS required Y/N |
| 1 | BLACK PLASTIC | HIPS | N/A | N |
| 2 | BROWN PLASTIC | HIPS | N/A | N |
| 3 | PINK PLASTIC | HIPS | N/A | N |
| 4 | GREEN PLASTIC | HIPS | N/A | N |
| 5 | GRASS GREEN PLASTIC | HIPS | N/A | N |
| 6 | ORANGE PLASTIC | HIPS | N/A | N |
| 7 | BLUE PLASTIC | HIPS | N/A | N |
| 8 | RED PLASTIC | HIPS | N/A | N |
| 9 | YELLOW PLASTIC | HIPS | N/A | N |
| 10 | WHITE PLASTIC | HIPS | N/A | N |
| 11 | PURPLE PLASTIC | HIPS | N/A | N |
| 12 | LIGHT BROWN PLASTIC | HIPS | N/A | N |



7. SDS (Safty Data Sheets) : N/A

8. The Printing of the Packing of the Toy : N/A

9. The Instructions or Leaflet or Accompanying Documents
N/A

B. Safety Assessment of Potential Risk of Toys:

1. Do not put any cube on the floor, avoid falling down.
2. Warning! Choking Hazard-small parts. Not for child under 3 years.

C. Conformity Assessment Procedure Followed

Self Assessment / Internal Product Control

Manufacturer : Edx Education Co., Ltd.

Manufacturer Address:

9F, NO. 39, Dunhua S. Road, Sec. 2, Taipei 106, Taiwan

15 London Road, Hindhead, GU26 6AB, United Kingdom

Tel: (886) 2 2704 8568 / (44) 20 7097 5173 Fax: (886) 2 2704 8141

Product : 1cm Cubes and 1cm Interlocking Cubes

Product Item Code : 12210-12219, 122100-122199, 13510-13519, 135100-135199

Product Image :



First party conformity assessment harmonized standards referenced in the OJEU used:

EN71 part 1: 2014+A1; 2018

EN71 part 2: 2020

EN71 part 2: 2011+A1: 2014

EN71 part 3: 2019+A1: 2021

EN71 part 3: UK toys (Safety) Regulations 2011

Phthalates: REACH, 2005/84/EC+A1: 2018/2005

Cadmium: REACH, 91/338/EEC

others:

ASTM part 1: ASTM F963-17 excluding section 7.1

ASTM part 1: ASTM F963-17 section 4.2

ASTM part 3: ASTM F963-17 standard CSs For Toy Safety

U.S CFR title 16 part 1500.50

Total Lead (Pb): US CPSIA 2008 Title I, Section 101

Phthalates: US CPSIA 2008

Phthalates: US 16 CFR Part 1307

California Prop65 for toy (Consent Judgement no. BG-350969 and RG-356892)

Approved by



30-Aug-23

Taipei, Taiwan

Andrea Lu

(place of issue)

Compliance Officer, Edx Education Co., Ltd.

(date of issue)

D. EC Declaration of Conformity (DoC)

Please find attached EC DoC (Document NO.: TD-1CM CB-DOC).

E. Address of Places of Manufacture and Storage

Manufacturer : Edx Education Co., Ltd.

Manufacturer Address:

9F, NO. 39, Dunhua S. Road, Sec. 2, Taipei 106, Taiwan

15 London Road, Hindhead, GU26 6AB, United Kingdom

Tel: (886) 2 2704 8568 / (44) 20 7097 5173 Fax: (886) 2 2704 8141

F. Test Reports

Please find attached certifications, TWNH00094064/TWNH00094138/TWNH00098827/TWNH00098828

| Test Standard/ | Report Number | Report Date | Issued by |
|----------------------------------|---------------|-------------|----------------------------------------------------------------------------------------------------------------|
| EN71-1 | TWNH00098828 | 25-Aug-23 | Intertek Taiwan Tel : (+886 2) 6602-2888 Addr : 8F., No.423, Ruiguang Rd., Neihu,Taipei 11492, Taiwan |
| EN71-2 EN71-3 | TWNH00094138 | 13-May-22 | Intertek Taiwan Tel : (+886 2) 6602-2888 Addr : 8F., No.423, Ruiguang Rd., Neihu,Taipei 11492, Taiwan |
| Phthalates REACH | TWNH00098827 | 23-Aug-23 | Intertek Taiwan Tel : (+886 2) 6602-2888 Addr : 8F., No.423, Ruiguang Rd., Neihu,Taipei 11492, Taiwan |
| Phthalates US 16 Part 1307 | TWNH00098827 | 23-Aug-23 | Intertek Taiwan Tel : (+886 2) 6602-2888 Addr : 8F., No.423, Ruiguang Rd., Neihu,Taipei 11492, Taiwan |
| Cadmium REACH | TWNH00098827 | 23-Aug-23 | Intertek Taiwan Tel : (+886 2) 6602-2888 Addr : 8F., No.423, Ruiguang Rd., Neihu,Taipei 11492, Taiwan |
| ASTM | TWNH00094064 | 13-May-22 | Intertek Taiwan Tel : (+886 2) 6602-2888 Addr : 8F., No.423, Ruiguang Rd., Neihu,Taipei 11492, Taiwan |
| CPSIA | TWNH00098827 | 23-Aug-23 | Intertek Taiwan Tel : (+886 2) 6602-2888 Addr : 8F., No.423, Ruiguang Rd., Neihu,Taipei 11492, Taiwan |

| | |
|--------------|---------------|
| Document No. | TD-1CM CB-DOC |
| Date: | 30-Aug-23 |

EC DECLARATION OF CONFORMITY

1. Manufacturer : Edx Education Co., Ltd./Edx Education UK Ltd.
Manufacturer Address:
9F, No.39, Dunhua S. Road, Sec. 2, Taipei 106, Taiwan
15 London Road, Hindhead, GU26 6AB, United Kingdom
Tel: (886) 2 2704 8568 / (44) 20 7097 5173 Fax: (886) 2 2704 8141
2. This declaration of conformity is issued under the sole responsibility of the manufacturer
3. Product : 1cm Cubes and 1cm Interlocking Cubes
Product Item Code :12210-12219, 122100-122199, 12210C, 13510-13519, 135100-135199
4. Product Image :



5. The object of the declaration described in point 3 & 4 is in conformity with the relevant Community harmonization legislation : [New Toy Safety Directive 2009/48/EC](#)
6. References to the relevant harmonised standards used, or references to the specifications in relation to which conformity is declared:
EN71 part 1: 2014+A1; 2018
EN71 part 2: 2020
EN71 part 2: 2011+A1: 2014
EN71 part 3: 2019+A1: 2021
EN71 part 3: UK toys (Safety) Regulations 2011
Phthalates: REACH, 2005/84/EC+A1: 2018/2005
Cadmium: REACH, 91/338/EEC
ASTM part 1: ASTM F963-17 excluding section 7.1
ASTM part 2: ASTM F963-17, section 4.2
ASTM part 3: ASTM F963-17 standard CSS For Toy Safety
U.S CFR title 16 part 1500.50
Total Lead (Pb): US CPSIA 2008 Title I, Section 101
Phthalates: US CPSIA 2008
Phthalates: US 16 CFR Part 1307
California Prop65 for toy (Consent Judgment no. BG-350969 and RG-356892)

Signed for and on behalf of

Andrea Lu

30-Aug-23

Taipei, TAIWAN

Andrea Lu

(place of issue)

Compliance Officer, Edx Education Co., Ltd.

(date of issue)

TEST REPORT

Applicant: EDX Education Co., Ltd.
9F, No. 39, Sec. 2, Dunhua S. Rd.,
Taipei 10681, Taiwan

Number : TWNH00098827
Issue Date : Aug 23, 2023

Sample Description:

One (1) Group of Submitted Samples Said To Be :

Item Name : 1cm Cubes & 1 cm Interlocking Cubes
Item No. : 12210-12219, 122100-122199, 13510-13519, 135100-135199
Quantity : 1 Group
Date Sample Received : Aug 15, 2023
Date Test Started : Aug 15, 2023

Test Conducted:

As requested by the applicant, for details please refer to attached pages.


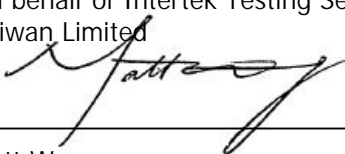
Conclusion:

Please see page two.

Remarks:

= Results were transferred from report No. TWNH00098330 dated Jun 15, 2023.

Authorized By:
On behalf of Intertek Testing Services
Taiwan Limited



Matt Wang
General Manager

Signed by:



Thomas Chou
Manager



TEST REPORT

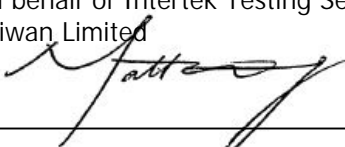
Number : TWNH00098827

Conclusion:

| <u>Tested Sample</u> | <u>Standard</u> | <u>Result</u> |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Submitted Samples | Physical And Mechanical Test For Sharp Point & Sharp Edge & Small Part – U.S. CFR title 16 part 1500.50 | Pass |
| | Total Lead (Pb) Content in Surface Coating – As per U.S. Consumer Product Safety Improvement Act 2008, title I, section 101 | Not Applicable (See Note) |
| Tested Components of Submitted Samples | Total Lead (Pb) Content in Non-Surface Coating Materials (Substrate) – As per U.S. Consumer Product Safety Improvement Act 2008, title I, section 101 | Pass |
| | Phthalates Content – As per US 16 CFR part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates | Pass |
| | – As per California Proposition 65 was quoted from the Consent Judgement no. BG-350969 settled by the Superior Court of the state of California for the County of Alameda, for toys based on the California Proposition 65 | Pass |
| | – As per annex XVII items 51 and items 52 of the REACH regulation (EC) No. 1907/2006 and its amendment (EU) 2018/2005 | Pass |
| | Total Cadmium (Cd) Content – As per annex XVII item 23 of the REACH regulation (EC) No. 1907/2006 | Pass |

Note: Since no scrapable surface coating was found on the submitted samples, the testing scope was not applicable to the submitted samples.

Authorized By:
On behalf of Intertek Testing Services
Taiwan Limited


Matt Wang
General Manager



Signed by:


Thomas Chou
Manager



Page 2 of 6



TEST REPORT

Number : TWNH00098827

Test Conducted

1. Physical And Mechanical Test

As per U.S. Code of Federal Regulations title 16 part 1500.50, the hazards of sharp points, sharp edge and small parts are assessed both before and after applicable use and abuse tests.

Applicant's specified age group for testing :
For ages over 3 years.

Result :

A. Accessible part evaluation

After testing, no internal component was exposed and accessible on the submitted samples.

B. Sharp point evaluation (16 CFR 1500.48)

No sharp point is found after abuse test.

C. Sharp edge evaluation (16 CFR 1500.49)

The sharp edge is not assessed since there is no accessible metal or glass edge found on the submitted sample.

D. Small part evaluation (16 CFR 1501)

The small part is not assessed due to the age grading is 36 months and up.

Small part was found at the as received stage, but the assessment is not applicable due to the specified age grading is not for children under 36 months.

2. Total Lead (Pb) Content in Non-Surface Coating Materials (Substrate)

According to CPSIA test method: CPSC-CH-E1002-08.3(non-metal) and CPSC-CH-E1001-08.3(metal), by acid digestion and Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES) analysis.

| <u>Tested Component</u> | <u>Result (ppm)</u> | <u>Limit (ppm)</u> |
|-------------------------|---------------------|--------------------|
| (1)(#) | ND | 100 |
| (2)(#) | ND | 100 |
| (3) | ND | 100 |
| (4) | ND | 100 |
| (5) | ND | 100 |
| (6) | ND | 100 |
| (7) | ND | 100 |
| (8)(#) | ND | 100 |
| (9) | ND | 100 |
| (10) | ND | 100 |
| (11) | ND | 100 |
| (12) | ND | 100 |

Remarks: ppm = Parts per million based on weight of tested sample = mg/kg
 ND = Not detected
 Detection limit = 20 ppm



TEST REPORT

Number : TWNH00098827

Test Conducted

3. Phthalates Content

With reference to CPSIA test method: CPSC-CH-C1001-09.4, by solvent extraction and Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

| Compound | Result (%) | | | | Limit ^A (%) | Limit ^B (%) |
|---------------------------------------------|------------|---------|---------|------------|------------------------|------------------------|
| | (1/2/8)(#) | (3/4/5) | (6/7/9) | (10/11/12) | | |
| Diethyl hexyl phthalate (DEHP) | ND | ND | ND | ND | 0.1 | 0.1 |
| Benzyl butyl phthalate (BBP) | ND | ND | ND | ND | 0.1 | 0.1 |
| Dibutyl phthalate (DBP) | ND | ND | ND | ND | 0.1 | 0.1 |
| Di-iso-decyl phthalate (DIDP) | ND | ND | ND | ND | -- | 0.1 |
| Di-iso-nonyl phthalate (DINP) | ND | ND | ND | ND | 0.1 | -- |
| Di-iso-butyl phthalate (DIBP) | ND | ND | ND | ND | 0.1 | -- |
| Di- <i>n</i> -pentyl phthalate (DPENP) | ND | ND | ND | ND | 0.1 | -- |
| Di- <i>n</i> -hexyl phthalate (DHEXP, DnHP) | ND | ND | ND | ND | 0.1 | 0.1 |
| Dicyclohexyl phthalate (DCHP) | ND | ND | ND | ND | 0.1 | -- |

Remarks: % = Percentage based on weight of tested sample

ND = Not detected

Detection limit = 0.010 %

A = Limit of US 16 CFR part 1307

B = Limit of California Proposition 65

The above limit was quoted from the Consent Judgement No. BG-350969 settled by the Superior Court of the state of California for the county of Alameda, for toys based on the California Proposition 65.

4. Phthalates Content

By solvent extraction and determined by Gas Chromatography-Mass Spectrometer (GC-MS).

I. Entry 51 of Annex XVII to Regulation (EC) No 1907/2006:

| Compound | Result (%) | | | | Limit (%) |
|--------------------------------|------------|---------|---------|------------|-----------|
| | (1/2/8)(#) | (3/4/5) | (6/7/9) | (10/11/12) | |
| Diethyl hexyl phthalate (DEHP) | ND | ND | ND | ND | 0.1 |
| Dibutyl phthalate (DBP) | ND | ND | ND | ND | 0.1 |
| Benzyl butyl phthalate (BBP) | ND | ND | ND | ND | 0.1 |
| Diisobutyl phthalate (DIBP) | ND | ND | ND | ND | 0.1 |
| Sum of DEHP, DBP, BBP & DIBP | ND | ND | ND | ND | 0.1 |

II. Entry 52 of Annex XVII to Regulation (EC) No 1907/2006:

| Compound | Result (%) | | | | Limit (%) |
|---------------------------------|------------|---------|---------|------------|-----------|
| | (1/2/8)(#) | (3/4/5) | (6/7/9) | (10/11/12) | |
| Di-(iso-nonyl) phthalate (DINP) | ND | ND | ND | ND | -- |
| Di-(Iso-decyl) phthalate (DIDP) | ND | ND | ND | ND | -- |
| Di-(n-octyl) phthalate (DNOP) | ND | ND | ND | ND | -- |
| Sum of DINP, DIDP & DNOP | ND | ND | ND | ND | 0.1 |

Remarks: % = Percentage based on weight of tested sample

ND = Not detected

Detection limit = 0.005% (for each compound)

The above limits are quoted from Annex XVII Items 51 and Items 52 of the REACH regulation (EC) No. 1907/2006 and its amendment (EU) 2018/2005.



TEST REPORT

Number : TWNH00098827

Test Conducted

5. Total Cadmium (Cd) Content

Acid digestion method was used and total cadmium content was determined by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES).

| <u>Tested Component</u> | <u>Result (ppm)</u> | <u>Limit (ppm)</u> |
|-------------------------|---------------------|--------------------|
| (1)(#) | ND | 100 |
| (2)(#) | ND | 100 |
| (3) | ND | 100 |
| (4) | ND | 100 |
| (5) | ND | 100 |
| (6) | ND | 100 |
| (7) | ND | 100 |
| (8)(#) | ND | 100 |
| (9) | ND | 100 |
| (10) | ND | 100 |
| (11) | ND | 100 |
| (12) | ND | 100 |

Limit:

Not detected for cadmium plating

100 ppm for all plastic materials, paint contain less than 10% zinc, brazing fillers & metal parts of jewelry

1000 ppm for recovered PVC, coatings & paint contain greater than 10% zinc

Remarks: ppm = Parts per million based on weight of tested sample = mg/kg

ND = Not detected

Detection limit = 5 ppm

Above limit was quoted according to annex XVII items 23 of the REACH regulation (EC) No. 1907/2006.

Tested Components:

- (1) Red plastic cube
- (2) Yellow plastic cube
- (3) Blue plastic cube
- (4) Green plastic cube
- (5) Orange plastic cube
- (6) Purple plastic cube
- (7) White plastic cube
- (8) Black plastic cube
- (9) Pink plastic cube
- (10) Grass green plastic cube
- (11) Dark brown plastic cube
- (12) Reddish brown plastic cube



TEST REPORT

Number : TWNH00098827

Sample photo:



End of Report

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This report is made solely on the basis of your instructions and / or information and materials supplied by you and provide no warranty on the tested sample(s) be truly representative of the sample source. The report is not intended to be a recommendation for any particular course of action, you are responsible for acting as you see fit on the basis of the report results. Intertek is under no obligation to refer to or report upon any facts or circumstances which are outside the specific instructions received and accepts no responsibility to any parties whatsoever, following the issue of the report, for any matters arising outside the agreed scope of the works. This report does not discharge or release you from your legal obligations and duties to any other person. You are the only one authorized to permit copying or distribution of this report (and then only in its entirety). Any such third parties to whom this report may be circulated rely on the content of the report solely at their own risk.

Reporting Statements of Conformity: *Please note that the test results contain statement of conformity with the decision rules which are based on the specifications of customers, regulations and standards, and does not consider measurement uncertainty.*



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TEST REPORT

Applicant: EDX Education Co., Ltd.
9F, No. 39, Sec. 2, Dunhua S. Rd.,
Taipei 10681, Taiwan

Number : TWNH00098828

Issue Date : Aug 25, 2023

Sample Description:

One (1) Group of Submitted Samples Said To Be :

Item Name : 1cm Cubes & 1 cm Interlocking Cubes
Item No. : 12210-12219, 122100-122199, 13510-13519, 135100-135199
Quantity : 1 Group
Date Sample Received : Aug 15, 2023
Date Test Started : Aug 15, 2023

Test Conducted:

As requested by the applicant, for details please refer to attached pages.

Conclusion:

| <u>Tested Sample</u> | <u>Standard</u> | <u>Result</u> |
|----------------------|----------------------------------------------------------------------------------------------------------------------|---------------|
| Submitted Samples | Mechanical and physical properties — As per European standard on safety of toys EN 71 part 1: 2014 + A1 : 2018 | Pass |

Authorized By:
On behalf of Intertek Testing Services
Taiwan Limited



Matt Wang
General Manager



Page 1 of 4



TEST REPORT

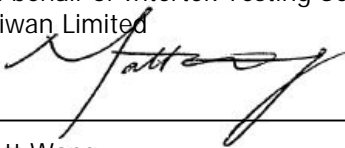
Number : TWNH00098828

Note : The attention of the applicant is drawn to the need for the item to be labeled as below

- Toys made available on the market shall bear the CE marking. The CE marking shall be subject to the general principles set out in Article 30 of Regulation (EC) No 765/2008. The CE marking shall be affixed visibly, legibly and indelibly to the toy, to an affixed label or to the packaging. In the case of small toys and toys consisting of small parts, the CE marking may alternatively be affixed to a label or an accompanying leaflet. Where, in the case of toys sold in counter displays, that is not technically possible, and on condition that the counter display was originally used as packaging for the toy, the CE marking may be affixed to the counter display. Where the CE marking is not visible from outside the packaging, if any, it shall as a minimum be affixed to the packaging. Where specific legislation does not impose specific dimensions, the CE marking shall be at least 5 mm high.
- The manufacturer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy. This requirement applies also to the name and address etc. of any importer.
- Manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.
- Manufacturers and importers shall ensure that the toy is accompanied by instructions and safety information in a language or languages easily understood by consumers, as determined by the Member State concerned.
- A Member State may, within its territory, stipulate that warnings and safety instructions shall be written in a language or languages easily understood by consumers, as determined by that Member State.

If this information is not fixed to the toy itself, it should be accompanied by a notice in advising the purchaser to retain it.

Authorized By:
On behalf of Intertek Testing Services
Taiwan Limited



Matt Wang
General Manager



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TEST REPORT

Number : TWNH00098828

Test Conducted

Mechanical and Physical Properties

As per European standard on safety of toys EN 71 part 1:2014 + A1 : 2018

Appropriate age group for testing #1 : For ages over 3 years

| <u>Clause</u> | <u>Testing item</u> | <u>Assessment</u> |
|---------------|---------------------------------------------|-------------------|
| 4* | General requirements | P |
| 5 | Toys intended for children under 36 months | NA#2 |
| 6 | Packaging | NA |
| 7* | Warnings, markings and instructions for use | P#1 |

Remarks : P = Pass ; NA = Not applicable
#1 = The applicant has certified that proper age grading, label and marking will put on the final product, and the age grading, label and marking certified meet the requirement of this standard. It is applicant's responsibility to make sure the final product with the age grading, label and marking as certified.
#2 = Small part was found at the as received stage, but the assessment is not applicable due to the specified age grading is not for children under 36 months.
* = The following subclauses of the standard are found applicable :

- 1) 4.1 Material cleanliness
 - 2) 4.7 Edges
 - 3) 4.8 Points and metallic, wires
 - 4) 7.1 General
 - 5) 7.2 Toys not intended for children under 36 months
-



TEST REPORT

Number : TWNH00098828

Sample photo:



End of Report

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This report is made solely on the basis of your instructions and / or information and materials supplied by you and provide no warranty on the tested sample(s) be truly representative of the sample source. The report is not intended to be a recommendation for any particular course of action, you are responsible for acting as you see fit on the basis of the report results. Intertek is under no obligation to refer to or report upon any facts or circumstances which are outside the specific instructions received and accepts no responsibility to any parties whatsoever, following the issue of the report, for any matters arising outside the agreed scope of the works. This report does not discharge or release you from your legal obligations and duties to any other person. You are the only one authorized to permit copying or distribution of this report (and then only in its entirety). Any such third parties to whom this report may be circulated rely on the content of the report solely at their own risk.

Reporting Statements of Conformity: *Please note that the test results contain statement of conformity with the decision rules which are based on the specifications of customers, regulations and standards, and does not consider measurement uncertainty.*



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TEST REPORT

Applicant: EDX Education Co., Ltd.
9F, No. 39, Sec. 2, Dunhua S. Rd.,
Taipei 10681, Taiwan

Number : TWNH00094138

Issue Date : May 13, 2022

Sample Description:

One (1) Groups of Submitted Samples Said To Be :

Item Name : 1cm Cubes & 1cm Intertlocking Cubes
Item No. : 12210-12219, 122101-122199, 13510-13519, 135101-135199
Quantity : 1 Group
Country of Origin : Taiwan
Date Job Applied : May 12, 2022

Test Conducted:

As requested by the applicant, for details please refer to attached pages.

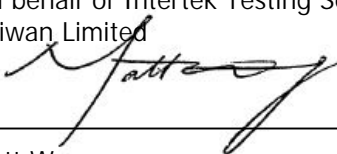
Conclusion:

| <u>Tested sample</u> | <u>Standard</u> | <u>Result</u> |
|----------------------------------------|---------------------------------------------------------------------------------------------------|---------------|
| Submitted Samples | Flammability test | |
| | — As per European standard on safety of toys EN 71 part 2 : 2020 | Pass |
| | — As per European standard on safety of toys EN 71 part 2 : 2011 + A1 : 2014 | Pass |
| Tested Components of Submitted Samples | 19 Toxic Element Migration Test | |
| | — As per European standard on safety of toys EN 71-3 : 2019+A1:2021 | Pass |
| | — As per European Council directive 2009/48/EC and amendment (EU) 2019/1922 on the safety of toys | Pass |
| | — As per UK toys (safety) regulations 2011 | Pass |

Remarks:

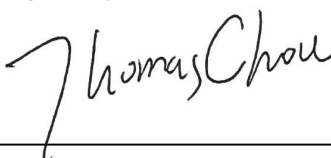
= Results were transferred from report No. TWNH00089593 dated May 24, 2021.

Authorized By:
On behalf of Intertek Testing Services
Taiwan Limited


Matt Wang
Director



Signed by:



Thomas Chou
Manager



TEST REPORT

Number : TWNH00094138

Test Conducted

1. Flammability Test

As per European standard on safety of toys EN 71 part 2 : 2020

| <u>Clause</u> | <u>Testing item</u> | <u>Assessment</u> |
|---------------|-----------------------------------------------------------------------------|-------------------|
| 4.1 | General | |
| | – Cellulose nitrate | P |
| | – Highly flammable solids | P |
| | – Pile surface | NA |
| | – Flammable gas and liquid | NA |
| 4.2 | Toys to be worn on the head (5.2/5.3/5.4) | NA |
| 4.3 | Toy disguise costumes and toys intended to be worn by a child in play (5.4) | NA |
| 4.4 | Toys intended to be entered by a child (5.4) | NA |
| 4.5 | Soft-filled toys(5.5) | NA |

Remarks : P = Pass
NA = Not applicable

2. Flammability Test

As per European standard on safety of toys EN 71 part 2 : 2011+ A1 : 2014.

| <u>Clause</u> | <u>Testing item</u> | <u>Assessment</u> |
|---------------|-----------------------------------------------------------------------------|-------------------|
| 4.1 | General | |
| | – Cellulose nitrate | P |
| | – Pile surface | NA |
| | – Flammable gas and liquid | NA |
| 4.2 | Toys to be worn on the head (5.2/5.3/5.4) | NA |
| 4.3 | Toy disguise costumes and toys intended to be worn by a child in play (5.4) | NA |
| 4.4 | Toys intended to be entered by a child (5.4) | NA |
| 4.5 | Soft-filled toys(5.5) | NA |

Remarks : P = Pass
NA = Not applicable



TEST REPORT

Number : TWNH00094138

Test Conducted

3. 19 Toxic Element Migration Test

As per EN 71-3:2019+A1:2021 and followed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES) and Inductively Coupled Plasma Mass Spectrometer (ICP-MS). Further confirmation test was determined by High Performance Liquid Chromatography with Diode Array Detection (HPLC-DAD), Liquid Chromatography /Inductively Coupled Plasma Mass Spectrometer (LC/ICP-MS), and Gas Chromatography-Mass Spectrometer (GC-MS) when necessary.

Category III: Scraped-off toy material

| Element | Result (mg/kg) | | | | | | Detection limit (mg/kg) | Limit (mg/kg) |
|--------------------------|----------------|-----|-----|-----|-----|-----|-------------------------|---------------|
| | (1) | (2) | (3) | (4) | (5) | (6) | | |
| Aluminium (Al) | ND | ND | ND | ND | ND | ND | 300 | 28130 |
| Antimony (Sb) | ND | ND | ND | ND | ND | ND | 10 | 560 |
| Arsenic (As) | ND | ND | ND | ND | ND | ND | 10 | 47 |
| Barium (Ba) | 285 | 200 | ND | ND | ND | ND | 10 | 18750 |
| Boron (B) | ND | ND | ND | ND | ND | ND | 50 | 15000 |
| Cadmium (Cd) | ND | ND | ND | ND | ND | ND | 5 | 17 |
| Chromium (III) (Cr(III)) | ND | ND | ND | ND | ND | ND | 10 | 460 |
| Chromium (VI) (Cr(VI)) | ND | ND | ND | ND | ND | ND | 0.025 | 0.053 |
| Cobalt (Co) | ND | ND | ND | ND | ND | ND | 10 | 130 |
| Copper (Cu) | ND | ND | ND | ND | ND | ND | 10 | 7700 |
| Lead (Pb) | ND | ND | ND | ND | ND | ND | 10 | 23 |
| Manganese (Mn) | ND | ND | ND | ND | ND | ND | 10 | 15000 |
| Mercury (Hg) | ND | ND | ND | ND | ND | ND | 10 | 94 |
| Nickel (Ni) | ND | ND | ND | ND | ND | ND | 10 | 930 |
| Selenium (Se) | ND | ND | ND | ND | ND | ND | 10 | 460 |
| Strontium (Sr) | ND | ND | ND | ND | ND | ND | 100 | 56000 |
| Tin (Sn) | ND | ND | ND | ND | ND | ND | 10 | 180000 |
| Organic tin | ND | ND | ND | ND | ND | ND | 3.0 | 12 |
| Zinc (Zn) | ND | ND | ND | ND | ND | ND | 100 | 46000 |



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Test Conducted

3. 19 Toxic Element Migration Test

| Element | Result (mg/kg) | | | | | | Detection limit (mg/kg) | Limit (mg/kg) |
|--------------------------|----------------|-----|-----|------|------|------|----------------------------|------------------|
| | (7) | (8) | (9) | (10) | (11) | (12) | | |
| Aluminium (Al) | ND | ND | ND | ND | ND | ND | 300 | 28130 |
| Antimony (Sb) | ND | ND | ND | ND | ND | ND | 10 | 560 |
| Arsenic (As) | ND | ND | ND | ND | ND | ND | 10 | 47 |
| Barium (Ba) | 301 | 265 | 177 | 255 | 193 | ND | 10 | 18750 |
| Boron (B) | ND | ND | ND | ND | ND | ND | 50 | 15000 |
| Cadmium (Cd) | ND | ND | ND | ND | ND | ND | 5 | 17 |
| Chromium (III) (Cr(III)) | ND | ND | ND | ND | ND | ND | 10 | 460 |
| Chromium (VI) (Cr(VI)) | ND | ND | ND | ND | ND | ND | 0.025 | 0.053 |
| Cobalt (Co) | ND | ND | ND | ND | ND | ND | 10 | 130 |
| Copper (Cu) | ND | ND | ND | ND | ND | ND | 10 | 7700 |
| Lead (Pb) | ND | ND | ND | ND | ND | ND | 10 | 23 |
| Manganese (Mn) | ND | ND | ND | ND | ND | ND | 10 | 15000 |
| Mercury (Hg) | ND | ND | ND | ND | ND | ND | 10 | 94 |
| Nickel (Ni) | ND | ND | ND | ND | ND | ND | 10 | 930 |
| Selenium (Se) | ND | ND | ND | ND | ND | ND | 10 | 460 |
| Strontium (Sr) | ND | ND | ND | ND | ND | ND | 100 | 56000 |
| Tin (Sn) | ND | ND | ND | ND | ND | ND | 10 | 180000 |
| Organic tin | ND | ND | ND | ND | ND | ND | 3.0 | 12 |
| Zinc (Zn) | ND | ND | ND | ND | ND | ND | 100 | 46000 |

Remarks: ND = Not detected

- Unless test result was marked with "Δ", organic tin content was derived from migration tin (Sn) content.
- According to the annex F to EN 71-3: 2019+A1:2021, the content of chromium (III) from the migration solution was calculated through the formula: chromium (III) = total chromium – chromium(VI).



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Test Conducted

4. 19 Toxic Element Migration Test

As per EN 71-3:2019 and followed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES) and Inductively Coupled Plasma Mass Spectrometer (ICP-MS).
Further confirmation test was determined by High Performance Liquid Chromatography with Diode Array Detection (HPLC-DAD), Liquid Chromatography /Inductively Coupled Plasma Mass Spectrometer (LC/ICP-MS), and Gas Chromatography-Mass Spectrometer (GC-MS) when necessary.

Category III: Scraped-off toy material

| Element | Result (mg/kg) | | | | | | Detection limit (mg/kg) | Limit (mg/kg) |
|--------------------------|----------------|-----|-----|-----|-----|-----|-------------------------|----------------------------|
| | (1) | (2) | (3) | (4) | (5) | (6) | | |
| Aluminium (Al) | ND | ND | ND | ND | ND | ND | 300 | 28130 /70000 ⁺⁺ |
| Antimony (Sb) | ND | ND | ND | ND | ND | ND | 10 | 560 |
| Arsenic (As) | ND | ND | ND | ND | ND | ND | 10 | 47 |
| Barium (Ba) | 285 | 200 | ND | ND | ND | ND | 10 | 18750 |
| Boron (B) | ND | ND | ND | ND | ND | ND | 50 | 15000 |
| Cadmium (Cd) | ND | ND | ND | ND | ND | ND | 5 | 17 |
| Chromium (III) (Cr(III)) | ND | ND | ND | ND | ND | ND | 10 | 460 |
| Chromium (VI) (Cr(VI)) | ND | ND | ND | ND | ND | ND | 0.025 | 0.053 /0.2 ⁺⁺ |
| Cobalt (Co) | ND | ND | ND | ND | ND | ND | 10 | 130 |
| Copper (Cu) | ND | ND | ND | ND | ND | ND | 10 | 7700 |
| Lead (Pb) | ND | ND | ND | ND | ND | ND | 10 | 23 |
| Manganese (Mn) | ND | ND | ND | ND | ND | ND | 10 | 15000 |
| Mercury (Hg) | ND | ND | ND | ND | ND | ND | 10 | 94 |
| Nickel (Ni) | ND | ND | ND | ND | ND | ND | 10 | 930 |
| Selenium (Se) | ND | ND | ND | ND | ND | ND | 10 | 460 |
| Strontium (Sr) | ND | ND | ND | ND | ND | ND | 100 | 56000 |
| Tin (Sn) | ND | ND | ND | ND | ND | ND | 10 | 180000 |
| Organic tin | ND | ND | ND | ND | ND | ND | 3.0 | 12 |
| Zinc (Zn) | ND | ND | ND | ND | ND | ND | 100 | 46000 |



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Test Conducted

4. 19 Toxic Element Migration Test

| Element | Result (mg/kg) | | | | | | Detection limit (mg/kg) | Limit (mg/kg) |
|--------------------------|----------------|-----|-----|------|------|------|-------------------------|----------------------------|
| | (7) | (8) | (9) | (10) | (11) | (12) | | |
| Aluminium (Al) | ND | ND | ND | ND | ND | ND | 300 | 28130 /70000 ⁺⁺ |
| Antimony (Sb) | ND | ND | ND | ND | ND | ND | 10 | 560 |
| Arsenic (As) | ND | ND | ND | ND | ND | ND | 10 | 47 |
| Barium (Ba) | 301 | 265 | 177 | 255 | 193 | ND | 10 | 18750 |
| Boron (B) | ND | ND | ND | ND | ND | ND | 50 | 15000 |
| Cadmium (Cd) | ND | ND | ND | ND | ND | ND | 5 | 17 |
| Chromium (III) (Cr(III)) | ND | ND | ND | ND | ND | ND | 10 | 460 |
| Chromium (VI) (Cr(VI)) | ND | ND | ND | ND | ND | ND | 0.025 | 0.053 /0.2 ⁺⁺ |
| Cobalt (Co) | ND | ND | ND | ND | ND | ND | 10 | 130 |
| Copper (Cu) | ND | ND | ND | ND | ND | ND | 10 | 7700 |
| Lead (Pb) | ND | ND | ND | ND | ND | ND | 10 | 23 |
| Manganese (Mn) | ND | ND | ND | ND | ND | ND | 10 | 15000 |
| Mercury (Hg) | ND | ND | ND | ND | ND | ND | 10 | 94 |
| Nickel (Ni) | ND | ND | ND | ND | ND | ND | 10 | 930 |
| Selenium (Se) | ND | ND | ND | ND | ND | ND | 10 | 460 |
| Strontium (Sr) | ND | ND | ND | ND | ND | ND | 100 | 56000 |
| Tin (Sn) | ND | ND | ND | ND | ND | ND | 10 | 180000 |
| Organic tin | ND | ND | ND | ND | ND | ND | 3.0 | 12 |
| Zinc (Zn) | ND | ND | ND | ND | ND | ND | 100 | 46000 |

Remarks: ND = Not detected

- ⁺⁺ = The limit was quoted according to UK toys (safety) regulations 2011 and its amendment.
- Unless test result was marked with "Δ", organic tin content was derived from migration tin (Sn) content.
 - According to the annex F to EN 71-3: 2019, the content of chromium (III) from the migration solution was calculated through the formula: chromium (III) = total chromium – chromium(VI).

Tested Components :

- (1) Red plastic cube
- (2) Yellow plastic cube
- (3) Blue plastic cube
- (4) Green plastic cube
- (5) Orange plastic cube
- (6) Purple plastic cube
- (7) Pink plastic cube
- (8) White plastic cube
- (9) Grass green plastic cube
- (10) Black plastic cube
- (11) Brown plastic cube
- (12) Reddish brown plastic cube



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Sample photo:



End of Report

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