

# Test Report

Report No.: U05101210525206-1E

Query Password: QW3801

Date: May 29, 2021

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Applicant: Pro Lion

Contact information: Leeuwerikstraat 133443AX, Woerden, The Netherlands

## The following sample(s) was (were) submitted and identified by client as:

Sample Description : 3D Puzzle

Item No. : Please refer to next page(s).

Packaging Provided : Yes

Labeled Age Grading : 3+

Requested Age Grading : 7+

Age Group Applied in Testing : 7+

Sample Received Date : May 25, 2021

Testing Period : From May 25, 2021 to May 28, 2021

Test Request : Please refer to next page(s).

Test Result(s) : Please refer to next page(s).

Signed for and on behalf of Shen Zhen UONE Test Co., LTD.

Prepared by



Ruth Lai

Checked by



Thea Ye

Approved by



Hedy Xu/ Eric Yang

Remark:Hedy (Chemistry field) + Eric (Physical field)



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Summary of Test Results (Tested parts are required partially by client):

**TEST REQUEST**

**CONCLUSION**

- (1) EN 71-1:2014+A1: 2018 European Standard for Safety of Toys  
Mechanical and Physical Properties
- (2) EN 71-2:2011+A1:2014 European Standard for Safety of Toys  
Flammability
- (3) EN71-3:2019 European Standard for Safety of Toys  
Migration of Certain Elements (Scraped-off toy material)

**PASS**

**PASS**

**PASS**

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Item No.:

ND0101, ND0102, ND0103, ND0104, ND0105, ND0106, ND0107, ND0108, ND0109, ND0110, ND1101, ND1012, ND1013, ND1014, ND1015, ND1016, ND1017, ND1018, ND1019, ND1120, ND1121, ND1122, ND1123, ND1124, ND1125, ND1126, ND1127, ND1128, ND1129, ND1130, ND1131, ND1132, ND1133, ND1134, ND1135, ND1136, ND1137, ND1138, ND1139, ND1140, ND1141, ND1142, ND1143, ND1144, ND1145, ND1146, ND1147, ND1148, ND1149, ND1150, ND1151, ND1152, ND1153, ND1154, ND1155, ND1156, ND1157, ND1158, ND1159, ND1160, ND1161, ND1162, ND1163, ND1164, ND1165, ND1166, ND1167, ND1168, ND1169, ND1170, ND1171, ND1172, ND1173, ND1174, ND1175, ND1176, ND1177, ND1178, ND1179, ND1180, ND1181, ND1182, ND1183, ND1184, ND1185, ND1186, ND1187, ND1188, ND1189, ND1190, ND1191, ND1192, ND1193, ND1194, ND1195, ND1196, ND1197, ND1198, ND1199, ND1200, ND1201, ND1202, ND1203, ND1204, ND1205, ND1206, ND1207, ND1208, ND1209, ND1210, ND1211, ND1212, ND1213, ND1214, ND1215, ND1216, ND1217, ND1218, ND1219, ND1220, ND1221, ND1222, ND1223, ND1224, ND1225, ND1226, ND1227, ND1228, ND1229, ND1230, ND1231, ND1232, ND1233, ND1234, ND1235, ND1236, ND1237, ND1238, ND1239, ND1240, ND1241, ND1242, ND1243, ND1244, ND1245, ND1246, ND1247, ND1248, ND1249, ND1250, ND1251, ND1252, ND1253, ND1254, ND1255, ND1256, ND1257, ND1258, ND1259, ND1260, ND1261, ND1262, ND1263, ND1264, ND1265, ND1266, ND1267, ND1268, ND1269, ND1270, ND1271, ND1272, ND1273, ND1274, ND1275, ND1276, ND1277, ND1278, ND1279, ND1280, ND1281, ND1282, ND1283, ND1284, ND1285, ND1286, ND1287, ND1288, ND1289, ND1290, ND1291, ND1292, ND1293, ND1294, ND1295, ND1296, ND1297, ND1298L, ND4401, ND4402

## Test Material(s) List

Material No.	Description	Remark
1	Color printed pattern cardboard	/
2	White foam	/
3	Black plastic	/
4	Black soft glue	/
5	Red soft glue	/

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## Test Result(s):

### (1) Mechanical and Physical Properties – EN 71-1:2014+A1: 2018

Section	Description	Assessment
4.1	Materials cleanliness	PASS
4.7	Edges	PASS
4.8	Points and Metallic Wires	PASS
7	Warning and Instructions for Use	PASS
7.1	General	PASS
7.2	Warning not intended for Children under 36 months	PASS

**Remark:** Only applicable clauses were shown.

**Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to informative Annex A.26 and A.33 of The European Standard on safety of toys EN71-1:2014+A1:2018 and the Directive 2009/48/EC-Safety of toys**

Summary table:

	On product	On packaging
CE mark	Absent	Present
Manufacturer's Name & Address	Absent	Present
Importer's Name & Address	Absent	Absent
Product ID	Absent	Present

<b>CE mark, importer / manufacturer mark (name, address), product identification</b>	<b>Present</b>
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### (2) Flammability – EN 71-2:2011+A1:2014

Section	Test Item	Assessment
4.1	General requirements	PASS

**Remark:** Only applicable clauses were shown.

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### (3) Migration of Certain Elements

**Test Method:** With reference to EN71-3:2019, analyzed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES), Inductively Coupled Plasma Mass Spectrometer (ICP-MS), Gas Chromatograph-Mass Spectrometry (GC-MS) and Ion Chromatograph.

Substance	MDL (mg/kg)	Test Result (mg/kg)				
		1	2	3	4	5
Aluminium (Al)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony (Sb)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	0.5	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Boron (B)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(III) (Cr <sup>3+</sup> )	2.0	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(VI) (Cr <sup>6+</sup> )	0.02	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	2.0	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	1.0	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	5.0	17	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin☆	0.1	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	5.0	N.D.	N.D.	14	14	15
<b>Conclusion</b>		PASS	PASS	PASS	PASS	PASS

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## The table of Migration Elements limit:

Substance	Limit (mg/kg)		
	Dry, brittle, powder-like or pliable materials	Liquid or sticky materials	Scraped-off materials
Aluminium (Al)	5625	1406	70000
Antimony (Sb)	45	11.3	560
Arsenic (As)	3.8	0.9	47
Barium (Ba)	1500	375	18750
Boron (B)	1200	300	15000
Cadmium (Cd)	1.3	0.3	17
Chromium(III) (Cr <sup>3+</sup> )	37.5	9.4	460
Chromium(VI) (Cr <sup>6+</sup> )	0.02	0.005	0.053
Cobalt (Co)	10.5	2.6	130
Copper (Cu)	622.5	156	7700
Lead (Pb)	2.0	0.5	23
Manganese (Mn)	1200	300	15000
Mercury (Hg)	7.5	1.9	94
Nickel (Ni)	75	18.8	930
Selenium (Se)	37.5	9.4	460
Strontium (Sr)	4500	1125	56000
Tin (Sn)	15000	3750	180000
Organic tin ☆	0.9	0.2	12
Zinc (Zn)	3750	938	46000

### Note:

1. mg/kg = part per million (ppm).
2. N.D. = Not Detected (< MDL).
3. MDL = method detection limit.
4. Calculated concentration of Chromium(III) (Cr<sup>3+</sup>) and Chromium(VI) (Cr<sup>6+</sup>) are based on total Chromium.
5. "☆" = Organic tin include Methyl tin, Butyltin, Dibutyl tin, Tributyl tin, Tetra-butyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin, Dimethyl tin. The migration of organic tin is expressed as tributyltin.

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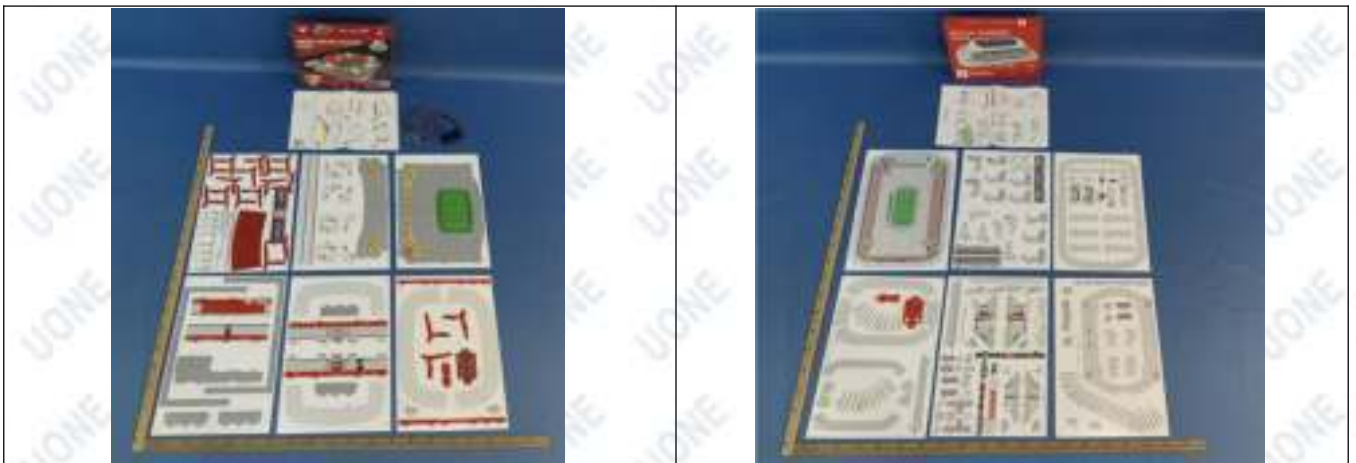
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Remark: The test result(s) is(are) copied from the test report No. U05101210525205-1E, dated May 28, 2021.

## Photo(s) of Sample:



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

This report is considered invalidated without the Special Seal for Inspection of the UONE, This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample tested.

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