

## Test Report

No. 2306195/TY

Date : Jul 08 2010

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EDUCA BORRAS S.A.  
C/OSONA, 1-08192 ST. QUIRZE DEL,  
VALLES - BARCELONA, SPAIN

The following samples were submitted and identified on behalf of the client as  
MAGNETIC PUZZLE CUBE 27 PCS ROYCE ART

Detail of Sample: PLASTIC MAGNETIC PUZZLE CUBE, COMES WITH A PLASTIC BASE.  
PRINTED BOX PACKED.

Style/Item No. : 27 MPC ROYCE ART  
P.O. No. : 14060  
Buyer : JOHN NHANSEN CO. INC  
Manufacturer : EDUCA BORRAS S.A.  
Country of Origin : CHINA  
Country of Destination : EU  
Labeled Age Grading : +9 YEARS  
Age Group Applied in Testing : OVER 8 YEARS  
Sample Receiving Date : JUN 30, 2010  
Testing Period : JUN 30, 2010 TO JUL 07, 2010

### TESTING REQUESTED :

For compliance with the Physical & Mechanical, Flammability and Lead & Heavy Metal test requirements of ASTM F963-08 Standard Consumer Safety Specification on Toy Safety.

### RESULTS :

Details please refer to next page.

### CONCLUSION :

The submitted samples comply with the requested test requirements.

Signed for and on behalf of  
SGS Hong Kong Ltd



Lee Chi Fai, Tom  
Senior Lab Manager

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**H21745522**

Results :

ASTM F963 – 08

AS SPECIFIED IN ASTM F963-08 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY

Clause Relevant to Sample.

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.0	<u>Safety Requirements</u>	
4.1	Material Quality **	<u>Pass</u>
4.2	Flammability Test	<u>Pass (See Note 1)</u>
4.3.5	Paint & Similar Surface-coating Material	<u>Pass (See Note 2)</u>
4.7	Accessible Edges	<u>Pass</u>
4.9	Accessible Points	<u>Pass</u>
4.12	Packaging Film	<u>Pass</u>
4.38	Magnets	<u>Pass</u>
5.0	<u>Safety Labelling Requirements</u>	
5.2	Age Grading Labeling	<u>Pass</u>
7.0	<u>Producer's Markings</u>	
7.1	Producer's Markings	<u>Pass</u>
8.5	Normal Use Testing	<u>Pass</u>

\*\* Visual Examination

Note 1 :

Flammability Test (Clause 4.2)  
Flammability Test on Solid

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>
MAGNETIC PUZZLE CUBE 27 PCS ROYCE ART	0.1*

\*Burning rate has been rounded to the nearest one tenth of an inch per second.

Requirement : A toy / component is considered a "flammable solid" if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

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Note 2 :

Paint & Similar Surface-coating Material (Clause 4.3.5)

ASTM F963-08 – Heavy Metals Analysis : Total Lead (Clause 4.3.5.1)

Method : CPSC Test Method: CPSC-CHE1003-09 'Standard Operation Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings'

Test Item	Result (mg/kg)		Detection Limit (mg/kg)	Permissible Limit (mg/kg)
	1-2			
Lead (Pb)	ND		20	90
<b>Comment</b>	PASS		--	--

Sample Description:

- Multi-Color Coating (Puzzle)
- Multi-Color Coating on Paper Board (Box)

Note : 1. mg/kg = milligram per kilogram  
2. ND = Not Detected

Soluble heavy metals in surface coating material (Clause 4.3.5.2)

Method : With reference to ASTM F963-08 Clause 8.3. Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry.

Test Item	Result (mg/kg)		Detection Limit (mg/kg)	Permissible Limit (mg/kg)
	1	2		
Soluble Lead (Pb)	ND	ND	5	90
Soluble Antimony (Sb)	ND	ND	5	60
Soluble Arsenic (As)	ND	ND	5	25
Soluble Barium (Ba)	16	ND	10	1000
Soluble Cadmium (Cd)	ND	ND	5	75
Soluble Chromium (Cr)	ND	ND	5	60
Soluble Mercury (Hg)	ND	ND	5	60
Soluble Selenium (Se)	ND	ND	10	500
<b>Comment</b>	PASS	PASS	--	--

Sample Description:

- Multi-Color Coating (Puzzle)
- Multi-Color Coating on Paper Board (Box)

Note : 1. mg/kg = milligram per kilogram  
2. ND = Not Detected  
3. Results of soluble heavy metal contents shown are of the adjusted analytical result.

N.B.: - Only applicable clauses were shown

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

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