# **Safety Testing Confirmation**

NO.: YD17-00935 Date: 2017-12-15		Processing day: 7				
	Company		Corporate Registration No.			
يد	J World Inc	lustry	126-86-29870			
Applicant	Owner		Phone			
lddν	Han Jong	Hee	02-858-7900			
⋖	Address					
	59, Cheonwonsandan gil	1, Mado Myeun, F	Hwasung, Kyeunggido, South Korea			
	Product		Registration Number			
	Baby Floor P	laymat	CB021H031-6002A			
duct	Category		Manufacturer			
Product	Playmat, Foldir	ıg, PE, PU	J World Industry			
	Country of Origin		Model Name			
	South Ko	rea	Eco Color Folder			

This confirmation is issued according to [Special Safety Act for Children's Products].

2017.12.15 (Valid until 2021.11.15)

**Korea Conformity Laboratories** 

# **Picture of Tested Product**

Company	J World Industry
Model Name	Eco Color Folder
Registration Number	CB021H031-6002A

### J World Industry



### **Test Result**

Korea Conformity Laboratories	Test confirmation No.	
199, Gasan digital 1-ro, Geumcheon-gu, Seoul	YA16-03543	(logo)
TEL: +82)2-2102-2500		

1. Applicant

Company Name	Corporate Registration No.			
J World Industry	126-86-29870			
Owner	Phone			
Han Jong Hee	+82)2-858-7900			
Address				
59, Cheonwonsandan gil 1, Mado My	eun, Hwasung, Kyeunggido, Korea			

2. Purpose of the test result: To register Children's products under the Special Safety Act

3. Test item / Sample

Product Name	Model Name	Category	Manufacturer	Country of Origin
Baby Floor Playmat	Eco Coler Folder	Playmat, Folding, PE, PU	J World Industry	South Korea

4. Period of test: 2016. 09.26~2016.11.11

5. Test Method: Attachment 2

6. Test Result: Pass

Authorized Signatory	Technical Expert	
Gwak Sun Jin	Kim Hae Gyu	

This report is the test result about the categories approved by KOLAS.

2016.11.11

## **Korea Conformity Laboratories**

approved by KOLAS (Korea Laboratory Accreditation Scheme)

Tes	t Result	
Korea Conformity Laboratories	Test confirmation No.	
199, Gasan digital 1-ro, Geumcheon-gu, Seoul	YA16-03543	(logo)
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	Category		Limitaion	Test Result	Pass/Fail
Small Pieces	Less th Mor		The item must not be fit into the cylinder at any angle.	Positive	Pass
	36 Months and Up		A warning sign must be added, if the item fits into the cylinder. If there is a warning sign for product, which is targeted for older than 96 months, the product does not have to be tested.	1	-
	Sharp Edg Glass o		No sharp edge is allowed for an item, which is targeted for children younger than 96 months.	-	-
	Function	Less than 36 Months	Sharp edge should be not accessible.	-	-
Edge	al Sharp Edge	36 Months and Up	A warning sign must be applied if there is a functional sharp edge (i.e., children's scissors or tools).	1	-
	Metal P	roducts	Metal Edge on product for children younger than 96 months must be folded or rolled up without splinters. Otherwise, there should be permanent safety cap or proper finishing.	-	-
	Synthet Cast		No splinters or sharp edges are not allowed on casted product for children younger than 96 months. Otherwise, there should be safety device to avoid it.	-	-

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Category		У	Limitaion	Test Result	Pass/Fail
Edge	Edge of a Stick with Screw Nail or Spiral		Edge of a stick with screw nail or spiral must not have sharp edges, or must be protected with a safety cover.	-	-
	Accessible Sharp End		Items for younger than 96 months must not have easily accessible sharp end.	Positive	Pass
ρι	Function	Less than 36 months	Sharp end must not be accessed easily.	-	-
Sharp End	al Sharp  Fdge  36 A warning sign must be a	A warning sign must be applied if there a functional sharp end (i.e., children's items with needles)	,	-	
	Wooden child		Wooden items must not have any broken parts on edge and/or surface.	-	-
etic es	Magnetic Experimen Children c 96 Me	nt Kits for older than	If the magnetic flux is higher than 50 kG2mm2(0.5T2mm2), a warming sign must be applied.	-	-
Magnetic Pieces	Items magn magneti	etics/	The magnetic flux must be lower than 50 kG2mm2(0.5T2mm2) or the item must not fit into the cylinder.	-	-

Tes	t Result	
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Category		Standard	Test Result	Pass/Fail
		Must have no twists and dent in the shape.	Positive	Pass
		Must have clear color without stains or color changes.	Positive	Pass
		Must not have visible holes or scratches.	Positive	Pass
		The painting must be smooth and must not be overpainted.	Positive	Pass
	Appearance	The signs and prints must be clear.	Positive	Pass
		Finish must be smooth without dirt or stains.	Positive Positive Positive	Pass
		There must no scratch, tear-off. The solvent and color must not come out.	Positive	Pass
		Must not use offensive material or sexual content.	Positive	Pass
Physical/ Mechanical Features	Small Pieces	When tested under 5.1.2, a floor mat for children older than 36 months must have a warning sign for the parts fitting the cylinder.	Positive	Pass
	Edge	When tested under 5.1.3, there should be no harmful sharp edges or corners. If there is, it must be covered by safety caps.	Positive	Pass
	Sharp End	When tested under 5.1.4, there must be no harmful sharp ends.	Positive	Pass
	Any protrusion, which is potentially harmful, must be covered or sealed. The cover or seal must not be detached when tested under 5.1.5.	-	-	
	Magnetic Pieces	Before/after 5.1.6 test, the magnetic flux must be lower than 50 kG2mm2(0.5T2mm2), and the piece must not be too small.	-	-

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Category	Test Item	Limitation	Test Result	Pass/Fail
	Antimony (Sb)	Less than 60	Not found	Pass
	Arsenic (AS)	Less than 25	Not found	Pass
	barium (Ba)	Less than 1000	Not found	Pass
Harmful Elements Elutio	Cadmium (Cd)	Less than 75	Not found	Pass
(mg/kg)	Chromium (Cr)	Less than 60	Not found	Pass
	Lead (Pb)	Less than 90	16 (Only in the metal zipper)	Pass
	Mercury (Hg)	Less than 60	Not found	Pass
	Selenium (Se)	Less than 500	Not found	Pass
	DEHP		Not found	Pass
	DBP	Total less than 0.1	Not found	Pass
Total Phthalate Conten	BBP		Not found	Pass
Total Filtilalate Conten	DNOP		Not found	Pass
	DINP	Should have warning statement if found	Not found	Pass
	DIDP		Not found	Pass
Formaldehyde (mg/kg)		Less than 20	Not found	Pass
Organic Compound	DBT (Dibutyltin)	Less than 1.0	Not found	Pass
(mg/kg)	TBT (Tributyltin)	Less than 0.5	Not found	Pass
Dimethyl Fumarate (mg/kg)		Less than 0.1	Not found	Pass
Allergic Dye		Should not use	Not found	Pass
	Toluene	Less than 1.40	Not found	Pass
Volatile Organic Compounds (mg/kg)	Formamide	Less than 0.2	Not found	Pass
	N,N- Dimethylformamide	Less than 0.40	Not found	Pass
	2-Ethylhexanoic acid	Less than 0.25	0.02	Pass
	Butylhydroxytoluene	Less than 0.50	0.01	Pass
	2-Methoxyethanol	Less than 0.30	Not found	Pass
	Formaldehyde	Less than 0.05	Not found	Pass

# **Test Result**

**Korea Conformity Laboratories** 

199, Gasan digital 1-ro, Geumcheon-gu, Seoul

TEL: +82)2-2102-2500

Test confirmation No. YA16-03543

(logo)

Category	Test Item	Limitation	Test Result	Pass/Fail
	4-Aminobiphenyl	Less than 10	Not found	Pass
	Benzidine	Less than 10	Not found	Pass
	4-Chloro-o-toluidine	Less than 10	Not found	Pass
	2-Naphthylamine	Less than 10	Not found	Pass
	o-Aminoazotoluene	Less than 10	Not found	Pass
	2-Amino-4-nitrotoluene	Less than 10	Not found	Pass
	p-Chloroaniline	Less than 10	Not found	Pass
	2,4 Diaminoanisole (4-Methoxy- m-Phenylenediamine)	Less than 10	Not found	Pass
	4.4'-Diaminodiphenylmethane	Less than 10	Not found	Pass
	3,3'-Dichlorobenzidine	Less than 10	Not found	Pass
	3,3 Dimethoxybenzidin	Less than 10	Not found	Pass
	3,3'-Dimethylbenzidine	Less than 10	Not found	Pass
Arylamine in the fabric (mg/kg)	3,3'-Dimethyl-4,4'- Diaminodiphenylmethane	Less than 10	Not found	Pass
	p-Kresidine (2-Methoxy-5- Methylaniline)	Less than 10	Not found	Pass
	4,4'-Methylene-Bis-(2- Chloroaniline)	Less than 10	Not found	Pass
	4,4'-Oxydianiline	Less than 10	Not found	Pass
	4,4'-Thiodianiline	Less than 10	Not found	Pass
	o-Toluidine	Less than 10	Not found	Pass
	2,4-Toluenediamine	amine Less than 10 Not found		Pass
	2,4,5-Trimethylaniline	Less than 10	Not found	Pass
	o-Anisidine	Less than 10	Not found	Pass
	2,4-Xylidine	Less than 10	Not found	Pass
	2,6-Xylidine	Less than 10	Not found	Pass
	4-Aminoazobenzene	Less than 10	Not found	Pass

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### ■ Limitation

- Harmful Elements Elution (mg/kg): Sb:5, As:2, Ba:5, Cd:5, Cr:2, Pb:5, Hg:2, Se:5
- Total Phthalate Content (%): 0.001
- Formaldehyde (mg/kg): 20
- Total Lead (mg/kg): 10
- Total Cadmium (mg/kg): 5
- Organotin Compound (mg/kg): 0.5
- Arylamine in the fabric (mg/kg): 10
- Dimethyl Fumarate (mg/kg): 0.05
- Volatile Organic Compound [mg/(m2·h)]: 0.005

### ■ Analysis Equipment

- Harmful Element Elution, Total Lead, Total Cadmium: ICP-OES
- Formaldehyde: UV-Vis Spectrophotometer
- Total Phthalate Contents: GC/MS
- Organotin Compound, Arylamine in the fabric, Didethyl Fumarate: GC/MS
- pH in the fabric: pH meter
- Volatile Organic Compound: TD-GC/MS, HPLC

### ■ Remarks

- DEHP: Diethylhexyl phthalate
- DBP: Dibutyl phthalate
- BBP: Butyl benzyl Phthalate
- DNOP: Di-n-octyl phthalate
- DINP: Diisononyl phthalate
- DIDP: Diisodecyl phthalate

# Test Result Korea Conformity Laboratories 199, Gasan digital 1-ro, Geumcheon-gu, Seoul TEL: +82)2-2102-2500 Test confirmation No. YA16-03543 (logo)

TEL: +82)2-21	02-2500				
Cate	egory	Standard	Test Result Pass/		Pass/Fail
La	bel	The information below must be added in the label and applied on each unit. It should be visible and not be easily removed. Cautions on usage can be added separately on the products or instruction manual.		-	-
Model Name	2				
Age of User					
Production D	ate				
Manufacture	er Name				
Importing Co	mpany (Only	for Imported Product)			
Address and	Phone Numb	er			
Country of O	rigin				
	Floor mats fo	or 36 months and up (mats with small parts)			
Warning Signs	Must add a warning text or the sign: "Warning! Not suitable for children under 3 years old. Choking Hazard - Small parts!"				
	Floor mats containing more than 0.1% of Phthalate (DEHP, DBP, BBP, DINP, DIDP, DNOP)  Must add warning text: "Warning! This product can expose you to chemicals including Phthalates. Do not put it in your mouth."				

Cautions on Usage

### **Test Result**

**Korea Conformity Laboratories** 

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Test confirmation No. YA16-03543

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### Picture of Product

