



CONSUMER PRODUCTS SERVICES DIVISION

VISSTUN

Technical Report: (5122)082-0009
Date Received: MARCH 23, 2022

APRIL 13, 2022
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VISSTUN
6355 SUNSET CORPORATE DRIVE
LAS VEGAS NV 89120
UNITED STATES

Sample Description:	Mousepads & Counter mats	Sample Size:	135
Vendor:	DIGISPEC	Style No(s):	BioPBS Material
Manufacturer:	DIGISPEC	SKN/SKU No.:	N/A
Buyer:	N/A	PO No.:	N/A
Labeled Age Grade:	N/A	Ref #:	N/A
Appropriate Age Grade:	CHILDREN PRODUCTS, OVER 3 YEARS OF AGE	Country of Origin:	UNITED STATES
Client Specified Age Grade:	N/A	Assortment No.:	N/A
Tested Age Grade:	CHILDREN PRODUCTS, OVER 3 YEARS OF AGE		
UPC Code:	N/A		

EXECUTIVE SUMMARY:

The sample(s) MEETS the following requirement(s):

- The mechanical hazards requirements of 16 CFR 1500, "Federal Hazardous Substances Act Regulations".
- The flammability requirements of 16 CFR 1500.3(c)(6)(vi), "Flammable solid" (FHSA regulations).
- The phthalates content requirements by composite testing of the Consumer Product Safety Improvement Act (CPSIA) of 2008 Sec. 108(a) Prohibition On Sale of Certain Products Containing Specified Phthalates.
- The BBP, DBP, DEHP, DnHP and DIDP content requirements in toys, child care articles and watches according to the California Proposition 65 settlements of County of Sacramento case number 07AS04683, and the Alameda Superior Court case numbers BG07350969, RG08367601, RG07351032 and RG08378050.
- The DNHP content requirement of the client's specification.
- The total lead content requirements in computer and electronic accessories according to the California Proposition 65 settlements of San Francisco Superior Court CGC-09-485784.
- The total lead content of 100ppm requirements by composite testing in substrate materials of client's specification, with reference to (Consumer Products Safety Improvement Act (CPSIA) of 2008).
- The heavy metals content analysis for heavy metals content in substrate requirements of client's specification, with reference to ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.2(2)(b).
- The total lead content of 90ppm requirements of 16 CFR 1303, "Ban of lead-containing paint and certain consumer products bearing lead-containing paint" as mandated by Congress in section 101(f) of the Consumer Products Safety Improvement Act (CPSIA) of 2008, Public Law 110-314.
- The heavy metals content analysis for heavy metals content in surface coating requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.

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Note: According to the associated documents of Consumer Product Safety Improvement Act (CPSIA) of 2008, exemptions were granted to certain materials or products, such as natural materials / paper and similar materials / CMYK process printing inks / metal & alloys / electronics devices components / ordinary books / dyed & undyed textiles. Therefore, the lead content analysis of cmyk, fabric, paper components was not conducted.

Note: The materials as defined by the Consumer Products Safety Commission in 16 CFR 1500.91 (d) and (e) were not tested.

Note: According to ASTM F963-17, "Standard consumer safety specification on toy safety", Annex A10.10.1.5, exemption were granted to paper and paperboard. Therefore, the heavy metals content in substrate analysis of paper components of ASTM F963-17, Section 4.3.5.2(2)(b) was not conducted.

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Consumer Products Services, Inc.

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/AN



RESULTS:

PHTHALATES CONTENT IN CHILDREN'S TOYS AND CHILDCARE ARTICLES BY COMPOSITE TESTING (Consumer Product Safety Improvement Act (CPSIA) of 2008 Sec. 108(a) Prohibition On Sale of Certain Products Containing Specified Phthalates - BBP / DBP / DEHP / DIBP / DINP / DNHP / DNPP / DCHP CONTENT)

Test Method: With reference to U. S. CPSC-CH-C1001-09.3 (April 1, 2010).

Sample ID	Color / Component	Location	Style
A	Comp Black, Shiny Black and Matte Black Foam	Pad Backing	N612, BTZ, N67
B	Comp Grey and Dull Black Foam	Pad Backing	KD1, FF88
C	Black Soft Plastic	Pad Backing	NYZ
D	Black Thin Plastic with Adhesive	Pad Backing	NR12
E	Clear Adhesive Backed Paper	Pad Backing	MPL012
F	Comp Smooth Clear, Clear and Matte Clear Thin Plastic Backed White Thin Plastic with Print and Adhesive	Pad Front	N612, N67, KD1
G	Comp Dull Clear, Shiny Clear and Bright Clear Thin Plastic Backed White Thin Plastic with Print and Adhesive	Pad Front	FF88, NYZ, NR12
H	Clear Thin Plastic Backed White Thin Plastic with Print and Adhesive	Pad	NP1117
I	Clear Adhesive	Pad Binding	MPL012

Test Parameter	BBP	DBP	DEHP	DIBP	DINP	DNHP	DNPP	DCHP	Conclusion
Limit (%)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Sample	Result (%)								
A	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	PASS
B	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	PASS
C	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	PASS
D	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	PASS
E	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	PASS
F	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	PASS
G	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	PASS
H	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	PASS
I	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	PASS

Detection Limit :

Results reported in percentage



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BBP = Butyl benzyl phthalate (0.005%)

DBP = Dibutyl phthalate (0.005%)

DEHP = Di(2-ethylhexyl) phthalate (0.005%)

DIBP = Di-iso-butyl phthalate (0.005%)

DINP = Di-iso-nonyl phthalate (0.005%)

DnHP = Di-n-hexyl phthalate (0.005%)

DNPP = Di-n-pentyl phthalate (0.005%)

DCHP = Dicyclohexyl phthalate (0.005%)

LT = Less than

GT = Greater than

*ND = None
detected*



Results:
BBP/DBP/DEHP/DnHP/DIDP PHTHALATES CONTENT REQUIREMENTS IN TOYS, CHILD CARE ARTICLES AND WATCHES (California Proposition 65 settlements of County of Sacramento case number 07AS04683, and the Alameda Superior Court case numbers BG07350969, RG08367601, RG07351032 and RG08378050)

Sam ple ID	Color / Component					Location	Style
A	Comp Black, Shiny Black and Matte Black Foam					Pad Backing	N612, BTZ, N67
B	Comp Grey and Dull Black Foam					Pad Backing	KD1, FF88
C	Black Soft Plastic					Pad Backing	NYZ
D	Black Thin Plastic with Adhesive					Pad Backing	NR12
E	Clear Adhesive Backed Paper					Pad Backing	MPL0 12
F	Comp Smooth Clear, Clear and Matte Clear Thin Plastic Backed White Thin Plastic with Print and Adhesive					Pad Front	N612, N67, KD1
G	Comp Dull Clear, Shiny Clear and Bright Clear Thin Plastic Backed White Thin Plastic with Print and Adhesive					Pad Front	FF88, NYZ, NR12
H	Clear Thin Plastic Backed White Thin Plastic with Print and Adhesive					Pad	NP11 17
I	Clear Adhesive					Pad Binding	MPL0 12
Test Parameter	BBP	DBP	DEHP	DnHP	DIDP	Conclusion	
Limit (%)	0.1	0.1	0.1	0.1	0.1		
Sample	Result (%)						
A	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	PASS	
B	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	PASS	
C	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	PASS	
D	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	PASS	
E	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	PASS	
F	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	PASS	
G	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	PASS	
H	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	PASS	
I	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	PASS	

Detection Limit :

BBP = Butyl benzyl phthalate (0.005%)
DBP = Dibutyl phthalate (0.005%)
DEHP = Di(2-ethylhexyl) phthalate (0.005%)
DnHP = Di-n-hexyl phthalate (0.005%)

Results reported in

percentage
LT = Less than
GT = Greater than
ND = None detected



DIDP = Di-iso-decyl phthalate (0.005%)

CLIENT'S DnHP PHTHALATE CONTENT REQUIREMENT

Test Parameter:				DnHP	
Limit (%):				0.1	
	Color / Component	Location	Style	Result (%)	Conclusion
A.	Comp Black, Shiny Black and Matte Black Foam	Pad Backing	N612, BTZ, N67	LT 0.005	PASS
B.	Comp Grey and Dull Black Foam	Pad Backing	KD1, FF88	LT 0.005	PASS
C.	Black Soft Plastic	Pad Backing	NYZ	LT 0.005	PASS
D.	Black Thin Plastic with Adhesive	Pad Backing	NR12	LT 0.005	PASS
E.	Clear Adhesive Backed Paper	Pad Backing	MPL012	LT 0.005	PASS
F.	Comp Smooth Clear, Clear and Matte Clear Thin Plastic Backed White Thin Plastic with Print and Adhesive	Pad Front	N612, N67, KD1	LT 0.005	PASS
G.	Comp Dull Clear, Shiny Clear and Bright Clear Thin Plastic Backed White Thin Plastic with Print and Adhesive	Pad Front	FF88, NYZ, NR12	LT 0.005	PASS
H.	Clear Thin Plastic Backed White Thin Plastic with Print and Adhesive	Pad	NP1117	LT 0.005	PASS
I.	Clear Adhesive	Pad Binding	MPL012	LT 0.005	PASS

Detection Limit :
DnHP = Dihexyl phthalate (0.005%)

Results reported in percentage
LT = Less than
ND = None detected



TOTAL LEAD CONTENT IN COMPUTER AND ELECTRONIC ACCESSORIES (SAN FRANCISCO SUPERIOR COURT CGC-09-485784)

Element:			Lead	Conclusion
Maximum allowable limit: (mg/kg)			100 mg/kg	
Sample Description			Result (mg/kg)	Conclusion
Color / Component	Location	Style		
(A) Clear plastic/multi-color/white soft plastic with adhesive, clear plastic/multi-color/white/black soft plastic with adhesive, clear plastic/multi-color/white soft plastic with adhesive	Surface	A,B,C	LT 9.0	Pass
(B) Black soft plastic, dark grey soft plastic/ transparent thin plastic, dark grey soft plastic	Base	A,D,E	LT 9.0	Pass
(C) Laminated multi-color printed white plastic with adhesive, clear plastic/multi-color clear soft plastic, clear plastic/multi-color/white soft plastic with adhesive	Surface	D,E,F	LT 9.0	Pass
(D) Black soft plastic, light black soft plastic, dark grey soft plastic	Base	F,G,H	LT 9.0	Pass
(E) Clear plastic/multi-color printed white soft plastic with adhesive, clear adhesive	Surface, binding	H,I	LT 9.0	Pass
(F) Green printed white waxy paper, white waxy paper with adhesive	Base, inner pocket	C,E	LT 9.0	Pass
(G) Clear coating	Base	I	LT 10.0	Pass

LT = Less Than

mg/kg = milligrams per kilogram (ppm = parts per million)

* = Average of duplicate analyses



TOTAL LEAD CONTENT IN SUBSTRATE BY COMPOSITE TESTING (100PPM) - CLIENT'S SPECIFICATION WITH REFERENCE TO (Consumer Product Safety Improvement Act (CPSIA) of 2008)

Test Method: U.S. CPSC-CH-E1001-08.3:2012 or U.S. CPSC-CH-E1002-08.3:2012

Analyte	Lead
Requirement: Maximum allowable limit:	100 mg/kg

Analyte			Lead (Pb)		Conclusion
Sample Description			Result		
Color / Component	Location	Style	Result (mg/kg)		
(A) Clear plastic/multi-color/white soft plastic with adhesive, clear plastic/multi-color/white/black soft plastic with adhesive, clear plastic/multi-color/white soft plastic with adhesive	Surface	A,B,C	LT 9.0		Pass
(B) Black soft plastic, dark grey soft plastic/ transparent thin plastic, dark grey soft plastic	Base	A,D,E	LT 9.0		Pass
(C) Laminated multi-color printed white plastic with adhesive, clear plastic/multi-color clear soft plastic, clear plastic/multi-color/white soft plastic with adhesive	Surface	D,E,F	LT 9.0		Pass
(D) Black soft plastic, light black soft plastic, dark grey soft plastic	Base	F,G,H	LT 9.0		Pass
(E) Clear plastic/multi-color printed white soft plastic with adhesive, clear adhesive	Surface, binding	H,I	LT 9.0		Pass
(F) Green printed white waxy paper, white waxy paper with adhesive	Base, inner pocket	C,E	LT 9.0		Pass

LT = Less Than

mg/kg = milligrams per kilogram (ppm = parts per million)

* = Average of duplicate analyses



HEAVY METALS CONTENT IN SUBSTRATE – CLIENT’S SPECIFICATION

Test Method: With reference to ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex A7.

Sample Identity	Color	Location	Style
Type I: Substrate other than modeling clay			
A. (T)	Clear plastic/multi-color/white soft plastic with adhesive, clear plastic/multi-color/white/black soft plastic with adhesive, clear plastic/multi-color/white soft plastic with adhesive	Surface	A,B,C
A-1. (S)	Clear plastic/multi-color/white soft plastic with adhesive	Surface	A
A-2. (S)	Clear plastic/multi-color/white/black soft plastic with adhesive	Surface	B
A-3. (S)	Clear plastic/multi-color/white soft plastic with adhesive	Surface	C
B. (T)	Black soft plastic, dark grey soft plastic/ transparent thin plastic, dark grey soft plastic	Base	A,D,E
C. (T)	Laminated multi-color printed white plastic with adhesive, clear plastic/multi-color clear soft plastic, clear plastic/multi-color/white soft plastic with adhesive	Surface	D,E,F
C-1. (S)	Laminated multi-color printed white plastic with adhesive	Surface	D
C-2. (S)	Clear plastic/multi-color clear soft plastic	Surface	E
C-3. (S)	Clear plastic/multi-color/white soft plastic with adhesive	Surface	F
D. (T)	Black soft plastic, light black soft plastic, dark grey soft plastic	Base	F,G,H
E. (T)	Clear plastic/multi-color printed white soft plastic with adhesive, clear adhesive	Surface, binding	H,I
E-1. (S)	Clear plastic/multi-color printed white soft plastic with adhesive	Surface	H
E-2. (S)	Clear adhesive	Binding	I
F. (T)	Green printed white waxy paper, white waxy paper with adhesive	Base, inner pocket	C,E
F-1. (S)	Green printed white waxy paper	Base	C
F-2. (S)	White waxy paper with adhesive	Inner pocket	E
G. (T)	All color dyed blue fabric with some foam backing	Surface	G

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	
Max. Limit Type I (mg/kg) (S)	25	1000	75	60	60	90	60	500	
Analytical Correction	60%	30%	30%	30%	50%	30%	60%	60%	

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Conclusion
Sample	Result (mg/kg)								
A. (T)	LT 5.0	2990	LT 7.5	LT 6.0	LT 6.0	LT 9.0	LT 6.0	LT 50.0	Pass
A-1. (S)	-	LT 100	-	-	-	-	-	-	
A-2. (S)	-	LT 100	-	-	-	-	-	-	
A-3. (S)	-	LT 100	-	-	-	-	-	-	
B. (T)	LT 5.0	LT 50.0	LT 7.5	LT 6.0	LT 6.0	LT 9.0	LT 6.0	LT 50.0	Pass
C. (T)	LT 5.0	8690	LT 7.5	LT 6.0	LT 6.0	LT 9.0	LT 6.0	LT 50.0	Pass
C-1. (S)	-	LT 100	-	-	-	-	-	-	
C-2. (S)	-	LT 100	-	-	-	-	-	-	
C-3. (S)	-	LT 100	-	-	-	-	-	-	
D(T)	LT 5.0	LT 50.0	LT 7.5	LT 6.0	LT 6.0	LT 9.0	LT 6.0	LT 50.0	Pass
E. (T)	LT 5.0	7490	LT 7.5	LT 6.0	LT 6.0	LT 9.0	LT 6.0	LT 50.0	Pass
E-1. (S)	-	LT 100	-	-	-	-	-	-	
E-2. (S)	-	LT 100	-	-	-	-	-	-	
F. (T)	LT 5.0	14800	LT 7.5	LT 6.0	LT 6.0	LT 9.0	LT 6.0	LT 50.0	Pass
F-1. (S)	-	LT 100	-	-	-	-	-	-	
F-2. (S)	-	LT 100	-	-	-	-	-	-	
G. (T)	LT 2.5	LT 100	LT 7.5	LT 6.0	LT 6.0	LT 9.0	LT 6.0	LT 50	Pass

mg/kg = milligrams per kilogram (ppm=parts per million)
 LT = Less Than
 (T) = Total analysis
 (S) = Soluble analysis

As = Arsenic, Ba = Barium, Cd = Cadmium,
 Cr = Chromium, Hg = Mercury, Pb = Lead,
 Sb = Antimony, Se = Selenium



Remark:

Textiles (natural or synthetic) are exempted for lead content requirement according to clarification of Toy Industry Association for ASTM F963-17. The lead content analysis result of corresponding material herein if applicable is for client's reference only.

On an initial analysis for total heavy metals content, any component of greater than 80% of the set soluble limit will require retesting with the soluble heavy metals analysis of ASTM F963-17.

TOTAL LEAD CONTENT IN SURFACE COATING BY COMPOSITE TESTING ("Ban of Lead-containing paint and certain consumer products bearing Lead-containing paint", Consumer Product Safety Improvement Act (CPSIA) of 2008)

Test Method: U.S. CPSC-CH-E1003.09.1:2011

Element:			Lead		
Requirement: Maximum allowable limit:			90 mg/kg		
Sample Description			Result (mg/kg)		Conclusion
Color / Component	Location	Style	Overall	Potential	
(A) Clear coating	Base	-	LT 10.0	-	Pass

LT = Less Than

** = Average of duplicate analyses*

mg/kg = milligrams per kilogram (ppm = parts per million)

Potential = Estimated lead content per component is based on calculation by component individual weight



ASTM F963-17 HEAVY METALS CONTENT IN SURFACE COATINGS – (Section 4.3)

Test Method: With reference to ASTM International Standard ASTM F963-17, Section 8.3 and Annex A7.

Sample Identity	Color	Location	Style
A. (T)	Clear coating	Base	I

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se
Max. Limit (mg/kg) (S)	25	1000	75	60	60	90	60	500
Analytical Correction	60%	30%	30%	30%	50%	30%	60%	60%

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Conclusion
Sample	Result (mg/kg)								
A. (T)	LT 2.5	LT 100	LT 7.5	LT 6.0	LT 6.0	LT 9.0	LT 6.0	LT 50	Pass

mg/kg = milligrams per kilogram (ppm=parts per million)

LT = Less Than

(T) = Total analysis

(S) = Soluble analysis

As = Arsenic, Ba = Barium, Cd = Cadmium,

Cr = Chromium, Hg = Mercury, Pb = Lead,

Sb = Antimony, Se = Selenium

Remark:

On an initial analysis for total heavy metals content, any component of greater than 80% of the set soluble limit will require retesting with the soluble heavy metals analysis of ASTM F963-17

EXHIBIT # 1

