



CONSUMER PRODUCTS SERVICES DIVISION

TERVIS TUMBLER CO

Technical Report: (5218)240-0737

AUGUST 31, 2018

Date Received: AUGUST 28, 2018

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JEREMY CHUPP
TERVIS TUMBLER CO
201 TRIPLE DIAMOND BLVD., N. VENICE, FL 34275

Sample Description:	TRAVEL LIDS		
Manufacturer:	TERVIS TUMBLE CO	Colorant Code:	BL2 / RD1 / GN6 / GN2 / BL3 / BL10 / PU7 / PU3 / YE5 / YE1 / OR2 / PK3 / PK10 / PK2 / MR1 / BR2 / CL2 / WH1
No. of Samples:	5 EACH STYLE	SKU:	1024835 / 1025145 / 1028398 / 1025191 / 1025773 / 1028406 / 1090204 / 1097252 / 1090207 / 1036090 / 1036091 / 1036092 / 1027820 / 1027823 / 1028402 / 1090196 / 1097251 / 1090201 / 1090209 / 1097253 / 1090212 / 1059390 / 1059391 / 1059392 / 1097832 / 1095715 / 1097834 / 1036649 / 1036652 / 1036655 / 1036648 / 1036651 / 1036654 / 1024837 / 1025147 / 1028404 / 1097836 / 1095713 / 1097838 / 1036647 / 1036650 / 1036653 / 1209506 / 1209597 / 1041202 / 1041203 / 1041997 / 1042001 / 1042002 / 1073065 / 1073184

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Country of Origin:	USA	Country of Destination:	USA
Color:	BLUE / RED / LIME GREEN / HUNTER GREEN / NAVY BLUE / TURQUOISE / ROYAL PURPLE / PURPLE / NEON YELLOW / YELLOW / ORANGE / PINK / NEON PINK / FUSCHIA / MAROON / BROWN / FROSTY / WHITE	Age Grade:	3+ YRS
Manufactured Date:	01/2018	Material:	POLYPROPYLENE
Protocol No.:	TERV-08001-USA-CAN-MEX CPSD-08444-USA CPSD-06001-USA CPSD-06001.01-USA	Previous Report No.:	N/A
Product End Use:	DRINKING ARTICLE (FOOD CONTACT)		
Type of Testing:	Analytical Only BPA (Various) Heavy Metals (ASTM F963-16, CCPSA) Phthalates (7P, Prop 65, CPSIA, WA, CCPSA) Lead (CPSIA, IL, CCPSA) FDA Food Contact Safety (Please see form attached) Cadmium (WA, CCPSA)		



RESULTS:

- The bisphenol A (BPA) content requirement of the client's specification.

BISPHENOL A (BPA) CONTENT (Client's specification)

Test Method: Sample was extracted with organic solvent and then analyzed by Liquid Chromatograph Mass Spectrometer.

Analyte	Bisphenol A
Maximum allowable limit:	ND

Analyte			Bisphenol A	Conclusion
Test Component			Result	
Color/Component	Location	Style No.	(mg/kg)	
blue plastic	cap	A,B,C	ND	Pass
red plastic	cap	D,E,F	ND	Pass
light green plastic	cap	G,H,I	ND	Pass
deep green plastic	cap	J,K,L	ND	Pass
blue plastic	cap	M,N,O	ND	Pass
light blue plastic	cap	P,Q,R	ND	Pass
deep purple plastic	cap	S,T,U	ND	Pass
purple plastic	cap	V,W,X	ND	Pass
neon yellow plastic	cap	Y,Z,AA	ND	Pass
deep yellow plastic	cap	AB,AC,AD	ND	Pass
orange plastic	cap	AE,AF,AG	ND	Pass
pink plastic	cap	AH,AI,AJ	ND	Pass
neon pink plastic	cap	AK,AL,AM	ND	Pass
deep pink plastic	cap	AN,AO,AP	ND	Pass
deep red plastic	cap	AQ,AR	ND	Pass
deep brown plastic	cap	AS,AT	ND	Pass
translucent plastic	cap	AU,AV,AW	ND	Pass
white plastic	cap	AX,AY	ND	Pass

mg/kg = milligrams per kilogram (ppm = parts per million)
 ND = None Detected with detection limit at 0.1mg/kg



- The total lead content of 100ppm requirements by composite testing in substrate materials (Consumer Products Safety Improvement Act (CPSIA) of 2008).

TOTAL LEAD CONTENT IN SUBSTRATE BY COMPOSITE TESTING (100PPM) (Consumer Product Safety Improvement Act (CPSIA) of 2008)

Test Method: U.S. CPSC-CH-E1001-08.1 (June 21, 2010) or U.S. CPSC-CH-E1002-08.1 (June 21, 2010).

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

Analyte			Lead (Pb)	Conclusion
Sample Description			Result	
Color / Component	Location	Style	(mg/kg)	
(A) blue plastic	cap	A,B,C	LT 10	Pass
(B) red plastic	cap	D,E,F	LT 10	Pass
(C) light green plastic	cap	G,H,I	LT 10	Pass
(D) deep green plastic	cap	J,K,L	LT 10	Pass
(E) blue plastic	cap	M,N,O	LT 10	Pass
(F) light blue plastic	cap	P,Q,R	LT 10	Pass
(G) deep purple plastic	cap	S,T,U	LT 10	Pass
(H) purple plastic	cap	V,W,X	LT 10	Pass
(I) neon yellow plastic	cap	Y,Z,AA	LT 10	Pass
(J) deep yellow plastic	cap	AB,AC,AD	LT 10	Pass
(K) orange plastic	cap	AE,AF,AG	LT 10	Pass
(L) pink plastic	cap	AH,AI,AJ	LT 10	Pass
(M) neon pink plastic	cap	AK,AL,AM	LT 10	Pass
(N) deep pink plastic	cap	AN,AO,AP	LT 10	Pass
(O) deep red plastic	cap	AQ,AR	LT 10	Pass
(P) deep brown plastic	cap	AS,AT	LT 10	Pass
(Q) translucent plastic	cap	AU,AV,AW	LT 10	Pass
(R) white plastic	cap	AX,AY	LT 10	Pass

LT = Less Than

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

* = Average of duplicate analyses

- The initial total heavy metals content analysis for soluble heavy metals content in substrate requirements of ASTM F963-16, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.2(2)(b).

**TOTAL HEAVY METALS CONTENT – INITIAL ANALYSIS FOR SOLUBLE HEAVY METALS
CONTENT IN SUBSTRATE (ASTM F963-16, Section 4.3.5.2(2)(b))**

Test Method: ASTM International Standard ASTM F963-16, Section 8.3.1 and Annex A7.

Sample Identity	Color	Location	Style
Type I: Substrate other than modeling clay			
A.	blue plastic	cap	A,B,C
B.	red plastic	cap	D,E,F
C.	light green plastic	cap	G,H,I
D.	deep green plastic	cap	J,K,L
E.	blue plastic	cap	M,N,O
F.	light blue plastic	cap	P,Q,R
G.	deep purple plastic	cap	S,T,U
H.	purple plastic	cap	V,W,X
I.	neon yellow plastic	cap	Y,Z,AA
J.	deep yellow plastic	cap	AB,AC,AD
K.	orange plastic	cap	AE,AF,AG
L.	pink plastic	cap	AH,AI,AJ
M.	neon pink plastic	cap	AK,AL,AM
N.	deep pink plastic	cap	AN,AO,AP
O.	deep red plastic	cap	AQ,AR
P.	deep brown plastic	cap	AS,AT
Q.	translucent plastic	cap	AU,AV,AW
R.	white plastic	cap	AX,AY

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	
Max. Limit Type I (mg/kg)	25	1000	75	60	60	90	60	500	
Max. Limit Type II (mg/kg)	25	250	50	25	25	90	60	500	

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	
Sample	Result (mg/kg)								Conclusion
A	LT 7	LT 10	LT 10	LT 7	LT 5	LT 10	LT 10	LT 10	Pass
B	LT 7	LT 10	LT 10	LT 7	LT 5	LT 10	LT 10	LT 10	Pass
C	LT 7	LT 10	LT 10	LT 7	LT 5	LT 10	LT 10	LT 10	Pass
D	LT 7	LT 10	LT 10	LT 7	LT 5	LT 10	LT 10	LT 10	Pass
E	LT 7	LT 10	LT 10	LT 7	LT 5	LT 10	LT 10	LT 10	Pass
F	LT 7	LT 10	LT 10	LT 7	LT 5	LT 10	LT 10	LT 10	Pass
G	LT 7	LT 10	LT 10	LT 7	LT 5	LT 10	LT 10	LT 10	Pass
H	LT 7	LT 10	LT 10	LT 7	LT 5	LT 10	LT 10	LT 10	Pass
I	LT 7	LT 10	LT 10	LT 7	LT 5	LT 10	LT 10	LT 10	Pass
J	LT 7	LT 10	LT 10	LT 7	LT 5	LT 10	LT 10	LT 10	Pass
K	LT 7	LT 10	LT 10	LT 7	LT 5	LT 10	LT 10	LT 10	Pass
L	LT 7	LT 10	LT 10	LT 7	LT 5	LT 10	LT 10	LT 10	Pass



M	LT 7	LT 10	LT 10	LT 7	LT 5	LT 10	LT 10	LT 10	Pass
N	LT 7	LT 10	LT 10	LT 7	LT 5	LT 10	LT 10	LT 10	Pass
O	LT 7	LT 10	LT 10	7.42	LT 5	LT 10	LT 10	LT 10	Pass
P	LT 7	LT 10	LT 10	LT 7	LT 5	LT 10	LT 10	LT 10	Pass
Q	LT 7	LT 10	LT 10	LT 7	LT 5	LT 10	LT 10	LT 10	Pass
R	LT 7	LT 10	LT 10	LT 7	LT 5	LT 10	LT 10	LT 10	Pass

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

LT = Less Than

ND = None Detected

Detection limit (mg/kg): As and Cr = 7, Hg = 5, other elements = 10

Remark:

Textiles (natural or synthetic) are exempted for lead content requirement according to clarification of Toy Industry Association for ASTM F963-16. The lead content analysis result of corresponding material herein is for client's reference only.

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

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

Sb = Antimony, Se = Selenium



- The total cadmium content requirements in surface coating and substrates material according to Washington Bill HB 2647 (Revised Code of Washington, Title 70, Chapter 70.240).

TOTAL CADMIUM CONTENT IN SURFACE COATING AND SUBSTRATES (Washington Bill HB 2647, Revised Code of Washington, Title 70, Chapter 70.240)

Element:				Cadmium	
Requirement: Maximum allowable limit: (mg/kg)				40	
Sample Description				Result (mg/kg)	Conclusion
	Color / Component	Location	Style		
(A)	blue plastic	cap	A,B,C	LT 10	Pass
(B)	red plastic	cap	D,E,F	LT 10	Pass
(C)	light green plastic	cap	G,H,I	LT 10	Pass
(D)	deep green plastic	cap	J,K,L	LT 10	Pass
(E)	blue plastic	cap	M,N,O	LT 10	Pass
(F)	light blue plastic	cap	P,Q,R	LT 10	Pass
(G)	deep purple plastic	cap	S,T,U	LT 10	Pass
(H)	purple plastic	cap	V,W,X	LT 10	Pass
(I)	neon yellow plastic	cap	Y,Z,AA	LT 10	Pass
(J)	deep yellow plastic	cap	AB,AC,AD	LT 10	Pass
(K)	orange plastic	cap	AE,AF,AG	LT 10	Pass
(L)	pink plastic	cap	AH,AI,AJ	LT 10	Pass
(M)	neon pink plastic	cap	AK,AL,AM	LT 10	Pass
(N)	deep pink plastic	cap	AN,AO,AP	LT 10	Pass
(O)	deep red plastic	cap	AQ,AR	LT 10	Pass
(P)	deep brown plastic	cap	AS,AT	LT 10	Pass
(Q)	translucent plastic	cap	AU,AV,AW	LT 10	Pass
(R)	white plastic	cap	AX,AY	LT 10	Pass

LT = Less Than

* = Average of duplicate analyses

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



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- The total lead content of substrate materials requirements of Illinois Lead Poisoning Prevention Act, Public Act 095-1019, in client's specification (40ppm).

TOTAL LEAD CONTENT IN SUBSTRATES (Illinois General Assembly, Public Act 095-1019)

Test Method: Acid digestion followed by Atomic Absorption Spectrophotometry or Inductively Coupled Plasma Spectrometry

Analyte	Lead	
Requirement: Maximum allowable limit:	40 mg/kg	

Analyte			Lead (Pb)	Conclusion
Sample Description			Result	
Color / Component	Location	Style	(mg/kg)	
(A) blue plastic	cap	A,B,C	LT 10	Pass
(B) red plastic	cap	D,E,F	LT 10	Pass
(C) light green plastic	cap	G,H,I	LT 10	Pass
(D) deep green plastic	cap	J,K,L	LT 10	Pass
(E) blue plastic	cap	M,N,O	LT 10	Pass
(F) light blue plastic	cap	P,Q,R	LT 10	Pass
(G) deep purple plastic	cap	S,T,U	LT 10	Pass
(H) purple plastic	cap	V,W,X	LT 10	Pass
(I) neon yellow plastic	cap	Y,Z,AA	LT 10	Pass
(J) deep yellow plastic	cap	AB,AC,AD	LT 10	Pass
(K) orange plastic	cap	AE,AF,AG	LT 10	Pass
(L) pink plastic	cap	AH,AI,AJ	LT 10	Pass
(M) neon pink plastic	cap	AK,AL,AM	LT 10	Pass
(N) deep pink plastic	cap	AN,AO,AP	LT 10	Pass
(O) deep red plastic	cap	AQ,AR	LT 10	Pass
(P) deep brown plastic	cap	AS,AT	LT 10	Pass
(Q) translucent plastic	cap	AU,AV,AW	LT 10	Pass
(R) white plastic	cap	AX,AY	LT 10	Pass

LT = Less Than

* = Average of duplicate analyses

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



- The BBP, DBP, DEHP and DnHP content requirements of the client's specifications.

CLIENT'S BBP/DBP/DEHP/DnHP PHTHALATES CONTENT REQUIREMENTS

Color / Component		Location	Style
A.	blue plastic	cap	A,B,C
	red plastic	cap	D,E,F
	light green plastic	cap	G,H,I
B.	deep green plastic	cap	J,K,L
	blue plastic	cap	M,N,O
	light blue plastic	cap	P,Q,R
C.	deep purple plastic	cap	S,T,U
	purple plastic	cap	V,W,X
	neon yellow plastic	cap	Y,Z,AA
D.	deep yellow plastic	cap	AB,AC,AD
	orange plastic	cap	AE,AF,AG
	pink plastic	cap	AH,AI,AJ
E.	neon pink plastic	cap	AK,AL,AM
	deep pink plastic	cap	AN,AO,AP
	deep red plastic	cap	AQ,AR
F.	deep brown plastic	cap	AS,AT
	translucent plastic	cap	AU,AV,AW
	white plastic	cap	AX,AY

Test Parameter	BBP	DBP	DEHP	DnHP	
Limit (%)	0.1	0.1	0.1	0.1	
Sample	Result (%)				Conclusion
A	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	Pass
C	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	Pass
E	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	Pass

Detection Limit :

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

Results reported in percentage

LT = Less than
 ND = None detected



- The DNOP, DINP and DIDP content requirements of the client's specifications.

CLIENT'S DNOP/DINP/DIDP PHTHALATES CONTENT REQUIREMENTS

Color / Component		Location	Style
A.	blue plastic	cap	A,B,C
	red plastic	cap	D,E,F
	light green plastic	cap	G,H,I
B.	deep green plastic	cap	J,K,L
	blue plastic	cap	M,N,O
	light blue plastic	cap	P,Q,R
C.	deep purple plastic	cap	S,T,U
	purple plastic	cap	V,W,X
	neon yellow plastic	cap	Y,Z,AA
D.	deep yellow plastic	cap	AB,AC,AD
	orange plastic	cap	AE,AF,AG
	pink plastic	cap	AH,AI,AJ
E.	neon pink plastic	cap	AK,AL,AM
	deep pink plastic	cap	AN,AO,AP
	deep red plastic	cap	AQ,AR
F.	deep brown plastic	cap	AS,AT
	translucent plastic	cap	AU,AV,AW
	white plastic	cap	AX,AY

Test Parameter:	DNOP	DINP	DIDP	
Limit (%):	0.1	0.1	0.1	
Sample	Result (%)			Conclusion
A.	LT 0.005	LT 0.005	LT 0.005	Pass
B.	LT 0.005	LT 0.005	LT 0.005	Pass
C.	LT 0.005	LT 0.005	LT 0.005	Pass
D.	LT 0.005	LT 0.005	LT 0.005	Pass
E.	LT 0.005	LT 0.005	LT 0.005	Pass
F.	LT 0.005	LT 0.005	LT 0.005	Pass

Detection Limit :

DNOP = Di-n-octyl phthalate (0.005%)

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

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

Results reported in percentage

LT = Less than

ND = None detected



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- The phthalates (BBP, DBP, DEHP, DINP, DIBP, DPENP, DHEXP & DCHP) content requirements of the Consumer Product Safety Improvement Act (CPSIA) of 2008 Sec. 108(a) and 108(c), 16 CFR 1307).

PHthalates Content in Children's Toys and Child Care Articles (Consumer Product Safety Improvement Act (CPSIA) of 2008, Section 108(a) and 108(c), 16 CFR 1307)

Test Method: With reference to U. S. CPSC-CH-C1001-09.3 (April 1, 2010) / CPSC-CH-C1001-09.4 (January 17, 2018).

Sample Identity	Color / Component	Location	Style
A.	blue plastic	cap	A,B,C
	red plastic	cap	D,E,F
	light green plastic	cap	G,H,I
B.	deep green plastic	cap	J,K,L
	blue plastic	cap	M,N,O
	light blue plastic	cap	P,Q,R
C.	deep purple plastic	cap	S,T,U
	purple plastic	cap	V,W,X
	neon yellow plastic	cap	Y,Z,AA
D.	deep yellow plastic	cap	AB,AC,AD
	orange plastic	cap	AE,AF,AG
	pink plastic	cap	AH,AI,AJ
E.	neon pink plastic	cap	AK,AL,AM
	deep pink plastic	cap	AN,AO,AP
	deep red plastic	cap	AQ,AR
F.	deep brown plastic	cap	AS,AT
	translucent plastic	cap	AU,AV,AW
	white plastic	cap	AX,AY

Test Parameter:	Listed Phthalates (See Remark)		
Requirement:	Each 0.1%		
Sample ID	Detected Analyte	Concentration (%)	Conclusion
A.	ND	ND	Pass
B.	ND	ND	Pass
C.	ND	ND	Pass
D.	ND	ND	Pass
E.	ND	ND	Pass
F.	ND	ND	Pass

Results reported in percentage

ND = None detected

Detection Limit: Each Phthalate (0.005%)

LIST OF RESTRICTED PHTHALATES		
Number	Chemical Name	CAS Number
1.	Butyl benzyl phthalate (BBP)	85-68-7
2.	Dibutyl phthalate (DBP)	84-74-2
3.	Di(2-ethylhexyl) phthalate (DEHP)	117-81-7
4.	Di-iso-nonyl phthalate (DINP)	28553-12-0 & 68515-48-0
5.	Di-iso-butyl phthalate (DIBP)	84-69-5
6.	Di-n-pentyl phthalate (DPENP or DnPP)	131-18-0
7.	Di-n-hexyl phthalate (DHEXP or DnHP)	84-75-3



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LIST OF RESTRICTED PHTHALATES		
8.	Dicyclohexyl phthalate (DCHP)	84-61-7



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- The phthalates content in children's products requirements of the Washington Children's Safe Products Act (CSPA) - RCW Chapter 70.240.020.

PHTHALATES CONTENT IN CHILDREN'S PRODUCTS (Washington Children's Safe Products Act (CSPA) - RCW Chapter 70.240.020)

Color / Component		Location	Style
A.	blue plastic	cap	A,B,C
	red plastic	cap	D,E,F
	light green plastic	cap	G,H,I
B.	deep green plastic	cap	J,K,L
	blue plastic	cap	M,N,O
	light blue plastic	cap	P,Q,R
C.	deep purple plastic	cap	S,T,U
	purple plastic	cap	V,W,X
	neon yellow plastic	cap	Y,Z,AA
D.	deep yellow plastic	cap	AB,AC,AD
	orange plastic	cap	AE,AF,AG
	pink plastic	cap	AH,AI,AJ
E.	neon pink plastic	cap	AK,AL,AM
	deep pink plastic	cap	AN,AO,AP
	deep red plastic	cap	AQ,AR
F.	deep brown plastic	cap	AS,AT
	translucent plastic	cap	AU,AV,AW
	white plastic	cap	AX,AY

Test Parameter	BBP	DBP	DEHP	DNOP	DINP	DIDP	Sum of 6 phthalates	
Limit (%)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Sample	Result (%)							Conclusion
A.	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.030	Pass
B.	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.030	Pass
C.	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.030	Pass
D.	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.030	Pass
E.	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.030	Pass
F.	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.030	Pass

Detection Limit:

BBP = Butyl benzyl phthalate (0.005%)
DBP = Dibutyl phthalate (0.005%)
DEHP = Di(2-ethylhexyl) phthalate (0.005%)
DNOP = Di-n-octyl phthalate (0.005%)
DINP = Di-iso-nonylphthalate(0.005%)
DIDP = Di-iso-decyl phthalate (0.005%)

Results reported in percentage

LT = Less than
ND = None detected



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- The specifications in corresponding section(s) of the US Code of Federal Regulations (CFR) Chapter 21 (FDA), Parts 175-177, "Indirect food additives". The material identification(s) provided by the client/vendor were olefin-copolymer (COP) (177.1520).

FDA Food Simulating Solvent Extractives –

INDIRECT FOOD ADDITIVES - POLYMERS: OLEFIN POLYMERS - OLEFIN BASIC COPOLYMERS

Test Method : U.S. FDA 21 CFR 177.1520

Sample Identity	Color / Component	Location	Style
A.	Blue plastic	Lid and slide cap	A-C
B.	Red plastic	Lid and slide cap	D-F
C.	Lime green plastic	Lid and slide cap	G-I
D.	Hunter green plastic	Lid and slide cap	J-L
E.	Navy blue plastic	Lid and slide cap	M-O
F.	Turquoise plastic	Lid and slide cap	P-R
G.	Royal purple plastic	Lid and slide cap	S-U
H.	Purple plastic	Lid and slide cap	V-X
I.	Neon yellow plastic	Lid and slide cap	Y-AA
J.	Yellow plastic	Lid and slide cap	AB-AD
K.	Orange plastic	Lid and slide cap	AE-AG
L.	Pink plastic	Lid and slide cap	AH-AJ
M.	Neon pink plastic	Lid and slide cap	AK-AM
N.	Fuschia plastic	Lid and slide cap	AN-AP
O.	Maroon plastic	Lid and slide cap	AQ-AR
P.	Brown plastic	Lid and slide cap	AS-AT
Q.	Translucent plastic	Lid and slide cap	AU-AW
R.	White plastic	Lid and slide cap	AX-AY

Analyte	Density	Total Extractive		
Solvent	-	n-Hexane	Xylene	
Condition	-	50 °C, 2 hours	Reflux temperature, 2 hours	
Requirement	0.85 – 1.00 g/cm ³	≤ 5.5 %	≤ 30 %	
Sample Identity	Results (g/cm ³)	Results (%)		Conclusion
A.	0.890	2.33	3.84	Pass
B.	0.892	2.81	5.53	Pass
C.	0.890	3.17	2.56	Pass
D.	0.890	3.07	5.94	Pass
E.	0.891	3.01	2.87	Pass
F.	0.892	2.55	3.99	Pass
G.	0.887	2.81	5.32	Pass
H.	0.895	2.52	6.02	Pass
I.	0.885	2.26	4.52	Pass
J.	0.893	2.52	3.36	Pass
K.	0.889	2.29	3.48	Pass
L.	0.890	2.25	3.08	Pass
M.	0.885	2.45	5.32	Pass
N.	0.886	4.09	9.34	Pass
O.	0.898	3.07	7.84	Pass
P.	0.888	3.05	7.78	Pass



Q.	0.886	2.63	10.9	Pass
R.	0.893	2.64	6.10	Pass

$<$ = *Less than*

\leq = *Less than or equal to*

g/cm^3 = *gram(s) per cubic centimeter*

% = *percent*

$>$ = *Greater than*

* = *Average of duplicated analysis*

$^{\circ}\text{C}$ = *degree Celsius*

Note: No accessible surface coating was present on the received sample(s). Consequently, the lead content analysis of surface coatings according to modified 16 CFR 1303, "Ban of lead-containing paint and certain consumer products bearing lead-containing paint" (Consumer Products Safety Improvement Act (CPSIA) of 2008), was not conducted.

Note: No accessible surface coating was present on the received sample(s). Consequently, the heavy metals content analysis of surface coatings according to ASTM F963-17, "Standard consumer safety specification on toy safety", Section 4.3.5.1(2), was not conducted.

Note: No accessible surface coating was present on the received sample(s). Consequently, the lead content analysis of surface coatings according to Illinois Lead Poisoning Prevention Act, Public Act 095-1019, was not conducted.

REMARK:

1. The results of BPA of light green plastic of style G-I, purple plastic of style V-X, deep pink plastic of style AN-AP and deep red plastic of style AQ, AR is transferred from report (5118)227-0142, and all other results are transferred from report (5218)184-1431.



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NOTE: If there are questions or concerns regarding above report, please contact the appropriate lab persons.

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Protocol Number	TERV-TY-08001-USA-CAN-MEX		Version	8
Protocol Description	CHILDREN DRINKING EQUIPMENT AND ICE BUCKET			
Country	United States-Canada-Mexico			
Scope	This protocol is applicable to children drinking equipment and ice bucket made of plastic and silicon. As a client specification, all products are tested as children’s products			
Creation Date	16/Jun/2016	Last Revision Date	02/Feb/2018	
Client Approval Date	05/FEB/2018	Approver	Jeremy Chupp	
No of Sample		US: Toys and Hardgoods (case by case for assortments): 3 CN: Toys and Hardgoods (case by case for assortments): 3 MX: Toys and Hardgoods (case by case for assortments): 2		
No of Working Days	5			

Keys

A	Additional Charge For This Test	M	Mandatory	R	Regulatory
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	Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
SUPPLEMENTARY PROTOCOL						
Note: Additional cost, sample size & TAT may be required if testing to 1 or more supplemental protocol is necessary. Please refer to the below referenced supplemental protocol(s) for additional information.						
A	CPSIA requirements	CPSD-AN-PTCL-08444-USA	-	All samples shall be reviewed against the requirements of CPSIA Requirements supplemental protocol to determine if additional testing or labeling is required.	SEE PROTOCOL CPSD-08444-USA	/
A M	California Proposition 65	CPSD-AN-PTCL-06572-USA	-	The sample should be reviewed against the requirements of California Proposition 65 to determine if additional testing or labeling is required. For samples that fall under the scope of CA Prop 65 requirements with testing limit(s) but does not contain appropriate labeling (refer to image appendix for detail), actual testing will be conducted. Otherwise, actual testing is not required and report as "Pass" if the sample contains	NA	/



	Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
				appropriate labeling.		
A	Food Contact	CPSD-AN-PTCL-06001-USA	--	The sample shall meet the applicable requirements in CPSD-AN-PTCL-06001-USA as specified.	SEE PROTOCOL CPSD-6001-USA	/
A	Packaging and Labeling Requirement	CPSD-HL-PTCL-09067-CAN-MEX-USA	-	The sample shall meet applicable packaging and labeling requirements in the supplemental protocol.	NT	/
LABELING						
R	Illinois lead warning label	Illinois Lead Poisoning Prevention Act		[US] Product may contain the following Illinois lead warning label per client's requirement. Refer to the analytical section for details. "WARNING: CONTAINS LEAD. MAY BE HARMFUL IF EATEN OR CHEWED. COMPLIES WITH FEDERAL STANDARDS."	NA	/
	Age grading	CPSC Age Determination Guidelines / 16 CFR Part 1200	-	[US] All products shall be tested according to either the appropriate age grade, as determined by BVCPS, or the labeled age grade if it is more stringent. In the event the sample is not age labeled, BVCPS will determine the appropriate age grade and test accordingly	NT	/
	Parts Labeling	CPSD-GB-01057-MTHD		[US, CN, MX] Parts Labeling shall match the actual content if present	NT	/
	Accuracy or adequacy of instructions	CPSD-GB-01057-MTHD	-	[US, CN, MX] Instructions shall be legible and easy to understand. Instructions shall be consistent with sample performance	NT	/
	Claim verification - level 2	CPSD-GB-08612-MTHD	-	[US, CN, MX] Examine the retail packaging (or submitted artwork). Record each objective (factual) claim which can be substantiated by the testing within the protocols and rate accordingly. Record testing that extend beyond existing net quantity / dimensional testing on this protocol. Record all other objective (factual) and subjective (opinion) claims as "NT" and rate as "DATA". Record information evaluated between the graphic imagery and the product. Record disclaimers on datasheet.	NT	/
	Flexible packaging film bags	SOR/2011-17 section 4 (Mod.)	--	[CN] The opening of the bag shall be less than 356 mm (14 inches) in circumference OR	NT	/



	Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
				<p>The bag shall</p> <ul style="list-style-type: none"> • be made from film that is at least 0.019 mm (0.75 mil) thick, and • have printed legibly on it the following warning or equivalent in both official languages: <p>PLASTIC BAGS CAN BE DANGEROUS. TO AVOID DANGER OF SUFFOCATION KEEP THIS BAG AWAY FROM BABIES AND CHILDREN. LES SACS DE PLASTIQUE PEUVENT ÊTRE DANGEREUX. POUR ÉVITER LE DANGER DE SUFFOCATION, NE LAISSEZ PAS CE SAC À LA PORTÉE DES BÉBÉS NI DES ENFANTS.</p> <p>Modification : expanded scope to other products</p>		
ANALYTICAL						
R	Heavy metal in packaging-Doc	Model Toxics in Packaging Legislation of the Toxics in Packaging Clearinghouse (TPCH) / CPSD-GB-00001-MTHD	-	<p>[US]</p> <p>The sum of concentration levels of lead, cadmium, mercury and hexavalent chromium in packaging or packaging components shall not exceed 100 mg/kg (100 ppm) by weight. In lieu of testing, test report can be submitted if dated within One year.</p>	NT	/
A R	Bisphenol A	US Various state laws (e.g. CT Public Act # 09-103 and MN Chapter 40 SF #247)/21 CFR 177.1580 / CPSD-AN-00169-MTHD	1	<p>[US]</p> <p>The following products shall not contain any detectable levels of Bisphenol-A (BPA) (BV reporting limit is 0.1mg/kg):</p> <ul style="list-style-type: none"> - Infant formula/ baby food plastic container, jar or can - All reusable food or beverage containers including lids (if any) - Baby bottle liners - Pacifiers - Straws <p>"Infant formula" means a commercially available milk based or soy based powder, concentrated liquid or ready-to-feed substitute for human breast milk that is intended for infant consumption.</p> <p>"Baby food" means a commercially available prepared solid food consisting of a soft paste or an easily chewed food that is intended for consumption by children two years of age or younger.</p> <p>"Reusable food or beverage container" means a receptacle for storing food or beverages, including, but not limited to, baby bottles, spill-proof cups, sports bottles and thermoses, and excluding containers intended for disposal after initial use.</p> <p>Report actual results or include data table within report.</p>	M (SEE RESULTS)	PASS



	Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
				Note: - Vendors shall provide documentation or a bill of materials for material identification. If they cannot provide surface coating or substrate material information, all coatings (except lacquer and paint) and applicable substrates will be tested. - Vendors shall be responsible for the compliance of all other materials. - Testing will not be conducted on food contact polycarbonate resins in infant feeding bottles (baby bottles) and spill-proof cups including their closures and lids, designed to help train babies and toddlers to drink from cups (sippy cups), because food contact polycarbonate resins are banned in these products by 21 CFR 177.1580. - Composite all colors of surface coating to perform one test. Client requirement		
A R	Total cadmium in surface coating	Washington Children's Safe Products Act (CSPA) – RCW Chapter 70.240.020 / CPSC-CH-E1003-09.1 (Mod) / CPSD-AN-00001-MTHD / CPSD-AN-00164-MTHD	1	[US] All accessible surface coatings, before and after use and abuse testing, on children's product under the age of twelve shall not exceed 40 ppm (0.004 % by weight) total cadmium. Note: - Limited to toys, cosmetics, jewelry, products designed or intended by the manufacturer to help a child with sucking or teething, to facilitate sleep, relaxation, or the feeding of a child, or to be worn as clothing by children, and child car seats. - Refer to CSPA Reporting Rule WAC 173-334 for the complete product list. - See RCW Chapter 70.240.010 for children's products that are exempt. - Products for children under 12 years of age that are subject to CPSIA cadmium requirements are exempt. - Composite up to 3 colors / like materials. - Individual materials will be analyzed if the composite result exceeds the adjusted limit (regulatory limit divided by the number of components). - Vendor shall be responsible for the compliance of all other materials.	NA	/
A R	Total cadmium in substrate	Washington Children's Safe Products Act (CSPA) – RCW Chapter 70.240.020 / CPSC-CH-E1001-08.3 (Mod) / CPSC-CH-E1002-08.3 (Mod) / CPSD-AN-00185-MTHD /	1	[US] All accessible plastics and metals, before and after use and abuse testing, on children's product under the age of twelve shall not exceed 40 ppm (0.004 % by weight) total cadmium. Note: - Limited to toys, cosmetics, jewelry, products designed or intended by the manufacturer to help a child with sucking or teething, to facilitate sleep, relaxation, or the feeding of a child, or to be worn as clothing by children, and child car seats. - Refer to CSPA Reporting Rule WAC 173-334 for the complete product list. - See RCW Chapter 70.240.010 for children's products that are exempt. - Products for children under 12 years of age that are subject to CPSIA cadmium	M (SEE RESULTS)	PASS



	Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
		CPSD-AN-00196-MTHD		requirements are exempt. - Composite up to 3 colors / like materials (except metals). - Individual materials will be analyzed if the composite result exceeds the adjusted limit (regulatory limit divided by the number of components). - Vendor shall be responsible for the compliance of all other materials.		
A R	Phthalates in children product	Washington Children's Safe Products Act (CSPA) – RCW Chapter 70.240.020 / CPSC-CH-C1001-09.3 (Mod) / CPSD-AN-00095-MTHD / CPSD-AN-00143-MTHD	1	[US] All accessible components, before and after use and abuse testing, on children's product under the age of twelve shall not exceed a sum of 1000 ppm (0.10% by weight) of DEHP, BBP, DBP, DINP, DNOP, DIDP. Note: - Limited to toys, cosmetics, jewelry, products designed or intended by the manufacturer to help a child with sucking or teething, to facilitate sleep, relaxation, or the feeding of a child, or to be worn as clothing by children, and child car seats. - Refer to CSPA Reporting Rule WAC 173-334 for the complete product list. - See RCW Chapter 70.240.010 for children's products that are exempt. - Products for children under 12 years of age that are subject to CPSIA phthalates requirements are exempt. - Actual testing would be conducted on all accessible plastics materials (including natural and synthetic rubber), plasticizer print, scrapable surface coatings, decals, polymeric coated materials (unscrapable), adhesives and sealants (exclude adhesive for stickers), reusable packaging, electrical plug and cables. - Vendor shall be responsible for the compliance of all other materials. - Composite up to 3 colors / like materials. - Individual materials will be analyzed if the composite result exceeds the adjusted limit (regulatory limit divided by the number of components).	M (SEE RESULTS)	PASS
A	Total heavy metal	Acid extraction with ICP analysis / CPSD-AN-00564-MTHD		[US] APPLY TO: Products and parts of product that can be sucked, mouthed or ingested. The criteria for classification of product or parts likely to be sucked, mouthed or ingested: (1) All product parts intended to be mouthed or contact food or drink (2) Products intended for children less than 6 years of age, that is, all accessible parts and components where there is a probability that those parts and components may come into contact with the mouth. All accessible surface coating and substrates, before and after use and abuse testing, shall have total heavy metals content comply with the limits specified in Table 1 of the standard. [Antimony (Sb) 60 mg/kg, Arsenic (As) 25 mg/kg, Barium (Ba) 1000 mg/kg, Cadmium (Cd) 75 mg/kg, Chromium (Cr) 60 mg/kg, Lead (Pb) 90 mg/kg, Mercury (Hg) 60 mg/kg, Selenium (Se) 500 mg/kg] Report actual results or include data table within report.	M (SEE RESULTS)	PASS



	Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
				<p>Component testing is allowed. Compositing up to 3 like colors/ materials is allowed except metal. Based on the standard, will composite up to 3 like colors/ materials except metal. If any material in the composite exceeds 80% of the limit based on the lowest weight component, soluble heavy metal content test with individual materials will be analyzed. Note: Test method and limit referenced ASTM F96317 Client requirement</p>		
A R	Total lead in surface coating	Illinois Lead Poisoning Prevention Act / CPSC-CH-E1003-09.1/ CPSD-AN-00001-MTHD	-	<p>[US] The following surface coatings shall contain less than 0.004% (40 ppm) lead or lead compounds in which the lead content is the weight of the total content or be labeled with the appropriate warning (refer to labeling section for details): All accessible surface coatings, in the as received state, on jewelry for children under 12 years of age; All accessible surface coatings, before and after use and abuse testing, on child care articles for children 6 years of age or younger, and on toys for children under 12 years of age. The warning label is not allowed for any sample with a result above the federal limit of 0.009% (90ppm). In case of insufficient coating for testing found on the number of samples specified in the protocol, vendor needs to provide additional samples/component parts (including raw materials) for testing. The vendor is responsible for compliance of all other products outside of the above scope. Report actual results or include data table within report. Component testing is allowed. Compositing is not allowed.</p>	NA	/
A R	Total lead in substrate	Illinois Lead Poisoning Prevention Act / CPSC-CH-E1001-08.3/CPSC-CH-E1002-08.3 / CPSD-AN-00185-MTHD/CPSD-AN-00196-MTHD	-	<p>[US] The following substrate materials shall contain less than 0.004% (40 ppm) lead or lead compounds in which the lead content is the weight of the total content or be labeled with the appropriate warning (refer to labeling section for details): All accessible substrate materials, in the as received state, on jewelry for children under 12 years of age; All accessible substrate materials, before and after use and abuse testing, on child care articles for children 6 years of age or younger. The warning label is not allowed for any sample with a result above the federal limit of 0.010% (100ppm). In case of insufficient material for testing found on number of samples specified in the protocol, vendor needs to provide additional samples/components/parts for testing. Materials exempted from testing under CPSIA (e.g., textiles) under 16 CFR 1500.88 and</p>	M (SEE RESULTS)	PASS



	Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
				1500.91(d) and (e) will not be tested. The vendor is responsible for compliance of all other products outside of the above scope. Report actual results or include data table within report. Component testing is allowed. Compositing is not allowed.		
A R	Total lead in surface coating	Canada Surface Coating Materials Regulations (SOR/2016-193) Sec.6 / CPSD-AN-00566-MTHD	--	[CN] All accessible surface coatings in the as received state on following products shall not contain lead or lead components in which the lead content is in excess of 90 mg/kg (0.009%) of the weight of the total content. a. products for children, including furniture; and b. pencils and artists' brushes. Note: - Report actual results or include data table within report. - Component testing is allowed. - Composite up to 3 colors is allowed. If any color in the composite exceeds 80% of the limit (72 ppm), based on the lowest weight component, individual colors will be analyzed. - In case of insufficient material for testing found on number of samples specified in the protocol, vendor needs to provide components or dipped parts for testing.	NA (US)	/
A R	Total lead in article in contact with the user's mouth	Canada Consumer Products Containing Lead (Contact with Mouth) Regulations (SOR/2010-273, 2016-171) / CPSD-AN-00461-MTHD	--	[CN] Products for all ages (including adults) that have accessible surface coatings and substrates that come into contact with the user's mouth during normal use shall not contain lead or lead components in which the lead content is in excess of 90 mg/kg (0.009%) of the weight of the total content. Note: - Report actual results or include data table within report. - Component testing is allowed. - Composite up to 3 colors is allowed. If any color in the composite exceeds 80% of the limit (72 ppm), based on the lowest weight component, individual colors will be analyzed. - The following products are exclude: a. Kitchen utensils, b. Jewelry under Children's Jewelry Regulations c. Products subject to Glazed Ceramic and Glassware Regulations. - Non-suspect materials as defined by the Consumer Products Safety Commission in 16 CFR 1500.88 and 16 CFR 1500.91 (d) and (e) will be exempted from testing. It is the vendor's responsibility to ensure compliance of these materials. - In case of insufficient material for testing found on number of samples specified in the	NA (US)	/



	Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
				protocol, vendor needs to provide components or dipped parts for testing.		
A R	BBP/DBP/DEHP content	Canada Phthalates Regulations (SOR/2016-188) / CPSD-AN-00095-MTHD / CPSD-AN-00143-MTHD	--	[CN] Accessible vinyl (PVC) in a toy or child care article, in the as received state, shall not contain concentration of more than 1000mg/kg (ppm) BBP, DBP or DEHP individually. Note: - Report actual results or include data table within report. - Compositing up to 3 like materials is allowed. - In case of insufficient material for testing found on number of samples specified in the protocol, vendor needs to provide components or parts for testing. - Vendor is responsible for compliance of all other types of vinyl.	NA (US)	/
A R	DNOP/DINP/DIDP content	Canada Phthalates Regulations (SOR/2016-188) / CPSD-AN-00095-MTHD / CPSD-AN-00143-MTHD	--	[CN] Accessible vinyl (PVC) in any part of a toy or child care article, in the as received state, that can, in a reasonably foreseeable manner, be placed in the mouth of a child under 4 years of age shall not contain concentration of more than 1000mg/kg (ppm) DINP, DIDP or DnOP individually. Note: - Report actual results or include data table within report. - Compositing up to 3 like materials is allowed. - In case of insufficient material for testing found on number of samples specified in the protocol, vendor needs to provide components or parts for testing. - Vendor is responsible for compliance of all other types of vinyl.	NA (US)	/
A	Phthalate content	Solvent extraction, GC-MS/LC-MS analysis / CPSD-AN-00095-MTHD		[US] Children products shall not contain concentrations of more than 0.1% BBP, DBP DEHP, DINP, DIDP, DnOP and DnHP individually: Note: - Actual testing would be conducted on all accessible plastics materials (including natural and synthetic rubber) and surface coatings. - Composite up to 3 colors / like materials. - Individual materials will be analyzed if the composite result exceeds the adjusted limit (regulatory limit divided by the number of components). - Report actual results or include data table within report. - Component testing is allowed. Client requirement	M (SEE RESULTS)	PASS
A	Identification of cellulose nitrate	Qualitative analysis and FTIR analysis / CPSD-AN-00042-MTHD		[CN] A product that is intended for use by a child, other than a ping-pong ball, shall not be made of or impregnated with celluloid or cellulose nitrate. Note: - Perform this test when the result of Cellulose nitrate is positive (Refer to Cellulose	NA (US)	/



	Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
				nitrate test line for detail). - Test method and limit with reference Canada Toys Regulations (SOR/2011-17) section 21 Client requirement		
A	Heavy metal in plastic	Acid digestion, ICP analysis / CPSD-AN-00009-MTHD		[CN] APPLY TO : Products intended for child under 3 years old All accessible plastics, in the as received state, on toys that are intended for use by a child less than three years of age in learning or play, shall have soluble heavy metal contents comply with following limits: Antimony (Sb) 60 mg/kg, Arsenic (As) 25 mg/kg, Barium (Ba) 1000 mg/kg, Cadmium (Cd) 75 mg/kg, Chromium (Cr) 60 mg/kg, Mercury (Hg) 60 mg/kg, Selenium (Se) 500 mg/kg Note: - Report actual results or include data table within report. - Component testing is allowed. - Composite up to 3 colors is allowed for the total screening test. If the composite result exceeds 80% of the soluble limit (e.g., 48 ppm for antimony), based on the lowest weight component, individual materials will be analyzed by the ASTM F963 soluble method to demonstrate compliance. Note : Test method and limit with reference Canada Toys Regulations (SOR/2011-17) section 27(a) Client requirement	NA (US)	/
PHYSICAL MECHANICAL AND ELECTRICAL HAZARD						
R	Small part	16 CFR 1501	1	[US] [Products intended for children under 36 months of age] Shall not include removable, liberated components, or fragments of products before or after use and abuse that are small part.	NT	/
	Small parts (Feeding products)	16 CFR 1501 (Mod)	1	[US] Feeding products such as drinking glasses, dishes and eating utensils, intended for children under 36 months of age shall not include removable, liberated components or fragments of products before or after use and abuse testing that are small part. Modification: Expand scope to cover feeding products.	NT	/
R	Sharp points	16 CFR 1500.48	1	[US] Items intended for children under 8 years of age shall not have accessible, potentially hazardous sharp points before or after use and abuse testing.	NT	/
R	Sharp edges	16 CFR 1500.49	1	[US] Items intended for children under 8 years of age shall not have accessible, potentially	NT	/



	Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
				hazardous sharp edges before or after use and abuse testing.		
	Toys - physical and mechanical	SOR/2011-17 (Mod.)	--	[CN] Shall comply with the physical and mechanical (e.g. small parts, points, edges, auditory, etc...) requirements as specified in standard. Modification : expand scope to non-toy products	NT	/
FLAMMABILITY						
R	Solids - Flammability	16 CFR 1500.3(c)(6)(vi) / 16 CFR 1500.44	1	[US] Shall not exceed the maximum allowable limit of no greater than 0.1 inches per second.	NT	/
	Cellulose nitrate	SOR/2011-17 Section 21 modified		[CN] Shall not exhibit burn characteristics associated with materials in whole or in part, made of or impregnated with Celluloid or Cellulose Nitrate. (If the result is positive, verify the presence of Celluloid or Cellulose Nitrate by "Identification of cellulose nitrate") Modification = Expanded scope to other products	NT	/
PERFORMANCE						
	Actual use - functionality	CPSD-GB-01058-MTHD	1	[US, CN, MX] Shall function as intended. Report details of evaluation (materials used / features tested / consumables / method / etc.)	NT	/
A	Bite test	16 CFR 1500.51(c) / 16 CFR 1500.52(c) / Client requirement	1	[US, CN, MX] Products intended for child less than 3 years old shall withstand bite force as specified by regulation with no breakage. Client requirement	NT	/
A	Dishwasher claim verification	CPSD-HL-01014-MTHD (Mod)	1	[US, CN, MX] [Product containing a dishwasher safe claim] Shall exhibit no surface degradation such as cracks, color fading, scratches, or deformation such as warping after 5 cycles. Modification: Modify the scope to product containing a dishwasher safe claim only.	M	PASS
A	Microwave claim verification	CPSD-HL-01024-MTHD (Mod)	1	[US, CN, MX] [Product containing a microwave safe claim] Sample is placed in condition room at 59 – 86 degree F (15 – 30 degree C) for at least 2 hours before the test. After removing the sample from condition room. Filled the test item with 75% water according to different types of item. Microwave the sample for 5 minutes with power of the microwave at 1000 W (or	NT	/



	Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
				equivalent energy i.e. 300 kJ.). Sample shall withstand test with no distortion, melting, surface deformation or staining after the test. For sample with handle, The temperature of the gripping area shall not exceed 140 degree F (60 degree C) and record the results as "Data Only." Modification: Modify the scope to product containing a microwave safe claim only.		
A	Freezer claim verification	CPSD-HL-01008-MTHD (Mod)	1	[US, CN, MX] [Product containing a freezer safe claim] Shall have no visual changes, functionality failure, structural failure and /or permanent deformation after a 4 hour exposure in a freezer chilled to 0 deg. F. Modification: Modify the scope to product containing a freezer safe claim only.	NT	/



IMPORTANT NOTE: The information presented under the "Criteria" of this protocol is for information only and does not replace the content of the standard. Details of the requirements should be referred to the original standards.

US use and abuse condition:

Testing Parameter	Age (Months)	Abuse Test Conditions
Drop Test	0 to ≤ 18	4.5 ft (1.37 m), 10 drops
	> 18 to ≤ 36	3 ft (0.91 m), 4 drops
	> 36 to ≤ 96	3 ft (0.91 m), 4 drops
Torque Test	0 to ≤ 18	2 in - lb (0.23 N - m)
	> 18 to ≤ 6	3 in - lb (0.34 N - m)
	> 36 to ≤ 96	4 in - lb (0.45 N - m)
Tension Test	0 to ≤ 18	10 lb (44.5 N)
	> 18 to ≤ 36	15 lb (66.8 N)
	> 36 to ≤ 96	15 lb (66.8 N)
Compression Test	0 to ≤ 18	20 lb (89 N)
	> 18 to ≤ 36	25 lb (111.3 N)
	> 36 to ≤ 96	30 lb (133.5 N)

CN use and abuse condition:

Testing Parameter	Age (Months)	Abuse Test Conditions
Drop Test	0 to ≤ 36	4.5 ft (1.37 m), 4 drops
	> 36 to ≤ 168	3 ft (0.91 m), 4 drops
Tension Test	0 to ≤ 168	10 lb (44.5 N)

Bite test condition:

Testing Parameter	Age (Months)	Test Load
Bite Test	0 to ≤ 18	25 lb (11.35 kg)
	> 18 to ≤ 36	50 lb (22.74 kg)
	> 36 to ≤ 96	100 lb (45.50 kg)



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Protocol Number	CPSD-AN-08444-USA		Version	31
Protocol Description	CPSIA REQUIREMENTS SUPPLEMENT			
Country	United States			
Scope	This protocol applies to toys, children products and child care article as defined by CPSIA, all furniture, including adult furniture, and household paint.			
Creation Date	29/Apr/2014	Last Revision Date	05/Jun/2018	
Client Approval Date		Approver		
No of Sample	6			
No of Working Days	7			

Keys

A	Additional Charge For This Test	M	Mandatory	R	Regulatory
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	Evaluation	Citation / Method	Criteria	1 Star	2 Star	3 Star	Result	Rating
LABELING								
R	Tracking label for children's products	CPSIA 103	A permanent and distinguishing mark or code on the product and its packaging, to the extent practicable, allows the manufacturer and purchaser to ascertain the name of the manufacturer or private labeler, location and date of production of the product. Verified the presence only. The accuracy of tracking label will not be verified. Note: Manufacturer or Private Labeler name can not be coded.	X	X	X	NT	/
A R	Registration for durable nursery product	CPSIA Sec. 104(d) / 16 CFR 1130	Consumer registration requirement: Required to provide consumers with a postage-paid consumer registration form with each such product and to permanently place the manufacturer name and contact information, model name and number, and the date of manufacture on each durable infant or toddler product. Requirements for registration form: The registration form shall (A) include spaces for a consumer to provide the consumer's name, address, telephone number, and e-mail address; (B) include space sufficiently large to permit easy, legible recording of all desired information; (C) be attached to the surface of each durable infant or toddler product so	X	X	X	NT	/



	Evaluation	Citation / Method	Criteria	1 Star	2 Star	3 Star	Result	Rating
			<p>that, as a practical matter, the consumer must notice and handle the form after purchasing the product;</p> <p>(D) include the manufacturer's name, model name and number for the product, and the date of manufacture;</p> <p>(E) include a message explaining the purpose of the registration and designed to encourage consumers to complete the registration;</p> <p>(F) include an option for consumers to register through the Internet; and</p> <p>(G) include a statement that information provided by the consumer shall not be used for any purpose other than to facilitate a recall of or safety alert regarding that product.</p> <p>"Durable infant or toddler product" means full-size cribs and nonfull-size cribs, toddler beds, high chairs, booster chairs, hook-on chairs, bath seats, gates and other enclosures for confining a child, play yards, stationary activity centers, infant carriers, strollers, walkers, swings, bassinets and cradles, children's folding chairs, changing tables, bouncers, infant bath tubs, bed rails and infant sling.</p>					
ANALYTICAL								
A R	Total lead in surface coating	16 CFR 1303/Consumer Product Safety Improvement Act of 2008 / CPSC-CH-E1003-09.1 / CPSD-AN-00001-MTHD	<p>All accessible surface coatings, before and after use and abuse testing, on items intended for children ages 12 and under shall not contain lead or lead components in which the lead content is in excess of 0.009% (90ppm) of the weight of the total content.</p> <p>In case of insufficient coating for testing found on number of samples specified in the protocol, vendor needs to provide additional component parts (including raw materials) for testing.</p> <p>Report actual results or include data table within report.</p> <p>Issue a third party test report.</p> <p>Component testing is allowed.</p> <p>Based on CPSC SOP, will composite up to 3 colors. If any color in the composite exceeds 80% of the limit (72 ppm), based on the lowest weight component, individual colors will be analyzed.</p>	X	X	X	NA	/
A R	Total lead in surface coating	16 CFR 1303/Consumer Product Safety Improvement Act of 2008 / CPSC-CH-E1003-09.1 / CPSD-AN-	<p>All accessible surface coatings in the assembled state on adult furniture [exempt factory applied coatings on metal components/parts] and household paint shall not contain lead or lead components in which the lead content is in exceed of 0.009% (90ppm) of the weight of the total content.</p> <p>In case of insufficient coating for testing found on number of samples specified in the protocol, vendor needs to provide dipped parts or components/parts for testing.</p>	X	X	X	NA	/



	Evaluation	Citation / Method	Criteria	1 Star	2 Star	3 Star	Result	Rating
		00001-MTHD	Report actual results or include data table within report. Issue a program audit report. Component testing is allowed. Based on CPSC SOP, will composite up to 3 colors. If any color in the composite exceeds 80% of the limit (72 ppm), based on the lowest weight component, individual colors will be analyzed.					
A R	Total lead in substrate	Consumer Product Safety Improvement Act of 2008 / CPSC-CH-E1001-08.3/CPSC-CH-E1002-08.3 / CPSD-AN-00185-MTHD/CPSD-AN-00196-MTHD	All accessible substrates, before and after use and abuse testing, on items intended for children ages 12 and under shall not contain lead in excess of 0.01% (100ppm) of the weight of the total content. In case of insufficient material for testing found on number of samples specified in the protocol, vendor needs to provide components/parts for testing. Report actual results or include data table within report. Issue a third party test report. Component testing is allowed. Compositing up to 3 like materials is allowed except metal.	X	X	X	M (SEE RESULTS)	PASS
A R	Total lead in children metal jewelry	Consumer Product Safety Improvement Act of 2008 / CPSC-CH-E1001-08.3 / CPSD-AN-00185-MTHD	Any accessible metal component of jewelry intended for children ages 12 and under shall not contain lead in excess of 0.01% (100ppm) of the weight of the total content. Report actual results or include data table within report Issue a third party test report Component testing is allowed Compositing is not allowed	X	X	X	NA	/
A R	Phthalates content	16 CFR 1307 / CPSC-CH-C1001-09.3 (Mod) / CPSC-CH-C1001-09.4 (Mod) / CPSD-AN-00143-MTHD	Children's toys and childcare articles, before and after use and abuse testing, shall not contain concentrations of more than 0.1% BBP, DBP, DEHP, DINP, DIBP, DPENP(=DnPP), DHEXP(=DnHP) or DCHP individually. Actual testing would be conducted on all accessible plastics materials (including natural and synthetic rubber) (excluding materials listed below), plasticizer print, scrapable surface coatings, decals, polymeric coated materials (unscrapable), adhesives and sealants (exclude adhesive for stickers), toy nail polish, reusable packaging, electrical plug and cables. Polypropylene (PP), polyethylene (PE), acrylonitrile butadiene styrene (ABS), general purpose polystyrene (GPPS), medium-impact polystyrene	X	X	X	M (SEE RESULTS)	PASS



	Evaluation	Citation / Method	Criteria	1 Star	2 Star	3 Star	Result	Rating
			<p>(MIPS), high-impact polystyrene (HIPS), and super high-impact polystyrene (SHIPS), and their additives as listed in 16 CFR 1308 are exempt from testing, however, they are not exempt from compliance or certification.</p> <p>If material identification is not provided, phthalate testing will be conducted on all plastic materials.</p> <p>Vendor shall be responsible for the compliance of all other accessible materials, including additives in the exempt plastic materials.</p> <p>In case of insufficient material for testing found on number of samples specified in the protocol, vendor needs to provide components/parts for testing.</p> <p>Report actual results or include data table within report.</p> <p>Component testing is allowed.</p> <p>Compositing up to 3 like materials is allowed.</p> <p>Product manufactured and imported as of April 25, 2018 must comply.</p>					

IMPORTANT NOTE: The information presented under the "Criteria" of this protocol is for information only and does not replace the content of the standard. Details of the requirements should be referred to the original standards.



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Protocol Number	CPSD-AN-06001-USA-3 STAR			Version	12
Protocol Description	FOOD CONTACT ARTICLE				
Country	United States				
Scope	This protocol covers the food grade tests for articles intended to contact with food and beverage.				
Creation Date	29/Apr/2014	Last Revision Date	05/May/2017		
Client Approval Date		Approver			
No of Sample		Please refer to supplemental protocols.			
No of Carton for Transit Test		Please refer to supplemental protocols.			
No of Working Days		Please refer to supplemental protocols.			

Keys					
A	Additional Charge For This Test	M	Mandatory	R	Regulatory

	Evaluation	Citation / Method	Criteria	1 Star	2 Star	3 Star	Results	Rating
SUPPLEMENTARY PROTOCOL								
A	Plastic	CPSD-AN-PTCL-06001.01-USA	Shall meet the applicable requirements in CPSD-AN-PTCL-06001.01-USA as specified.	X	X	X	SEE PROTOCOL CPSD-AN-PTCL-06001.01-USA	/
A	Paper and paperboard	CPSD-AN-PTCL-06001.02-USA	Shall meet the applicable requirements in CPSD-AN-PTCL-06001.02-USA as specified.	X	X	X	NA	/
A	Ceramic, porcelain, glass	CPSD-AN-PTCL-06001.03-USA	Shall meet the applicable requirements in CPSD-AN-PTCL-06001.03-USA as specified.	X	X	X	NA	/
A	Wood	CPSD-AN-PTCL-06001.04-USA	Shall meet the applicable requirements in CPSD-AN-PTCL-06001.04-USA as specified.	X	X	X	NA	/
A	Metal, metal alloy and enamel	CPSD-AN-PTCL-06001.05-USA	Shall meet the applicable requirements in CPSD-AN-PTCL-06001.05-USA as specified.	X	X	X	NA	/
ANALYTICAL								
A R	GRAS in non-metal material-	21 CFR 170-189 FDA Generally	Non-metal material intended to come into contact with food shall meet FDA GRAS requirement. All additives in that material, such as glue shall also meet FDA GRAS requirement. Client shall provide the documentation with material bill	X	X	X	NA	/



	Evaluation	Citation / Method	Criteria	1 Star	2 Star	3 Star	Results	Rating
	Doc	Recognized as Safe (GRAS) Guidelines/FDA Opinion / CPSD-AN-G00007-STIP01 / CPSD-AN-G00007-STIP02 / CPSD-GB-00001-STIP03	or composition for material identification. It is acceptable for the client to submit either a FDA approval letter or, if there is information from FDA showing the material is acceptable, a guarantee letter indicating the material is the only food grade material used in the manufacturing process can also be accepted.					
A R	Scrapable coatings on food contact areas	21 CFR 170-189 FDA Generally Recognized as Safe (GRAS) Guidelines / CPSD-AN-G00007-STIP02 / CPSD-AN-00002-STIP01	Scrapable coatings on the food contact area are prohibited. This includes all food contact products, including glass, plastic, metal, ceramic and wood. Excludes resinous and polymeric coatings that comply with 21 CFR 175.300.	X	X	X	NA	/
A R	Toxicological risk assessment in liquid and gel	16 CFR 1500.3(b)(5) and 1500.3(b)(7)-(9) / CPSD-AN-00033-MTHD	Sealed liquids and gels in food contact components or products that have the potential to accidentally leak into food or drinks, must not be toxic, skin irritant, eye irritant, corrosive, or a strong sensitizer. Toxicity risk assessment shall be conducted to substantiate the compliance of the regulation. Note: Products including but not limited to double walled cups and reusable ice cubes.	X	X	X	NA	/

Note 1: CPSD-AN-PTCL-06001.04-US will be offered to program client only.



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Protocol Number	CPSD-AN-06001.01-USA			Version	14
Protocol Description	PLASTIC FOOD CONTACT ARTICLE				
Country	United States				
Scope	This protocol covers the food grade tests for articles, which are made of plastic, intended to contact with food and beverage.				
Creation Date	12/Feb/2010	Last Revision Date	04/Jan/2017		
Client Approval Date		Approver			
No of Sample	4	Additional sample may be requested if insufficient.			
No of Working Days	7				

Keys					
A	Additional Charge For This Test	M	Mandatory	R	Regulatory

	Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
SUPPLEMENTARY PROTOCOL						
A M	California Proposition 65	CPSD-AN-PTCL-06572-USA	-	The sample should be reviewed against the requirements of California Proposition 65 to determine if additional testing or labeling is required. For samples that fall under the scope of CA Prop 65 requirements with testing limit(s) but does not contain appropriate labeling (refer to image appendix for detail), actual testing will be conducted. Otherwise, actual testing is not required and report as "Pass" if the sample contains appropriate labeling.	NA	/
ANALYTICAL						
A R	Resinous and polymeric coating	FDA 21 CFR 175.300 / CPSD-AN-00002-MTHD	-	Shall comply with FDA 21 CFR 175.300 requirements. Note: - No test for dry food. Dry food means no free fat or oil on the surface. - BPA-based epoxy resin coatings are not allowed to use in food contact packaging for infant formula.	NA	/
A R	Acrylic and modified acrylic plastic	FDA 21 CFR 177.1010 / CPSD-AN-00002-MTHD	-	Shall comply with FDA 21 CFR 177.1010 requirements. Note: - No test for dry food. Dry food means no free fat or oil on the surface.	NA	/
A R	Closures with sealing gaskets	FDA 21 CFR 177.1210 / CPSD-AN-00002-MTHD	-	Closure-sealing gasket of closures shall comply with FDA 21CFR 177.1210 requirements. Note:	NA	/



	Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
				- No test for dry food. Dry food means no free fat or oil on the surface. - Gaskets are only tested according to gasket requirements of FDA 21 CFR 177.1210. Vendor shall be responsible for the compliance of the material requirements, unless testing of material is requested.		
A R	Ethylene vinyl acetate copolymers	FDA 21 CFR 177.1350 / CPSD-AN-00002-MTHD	-	Shall comply with FDA 21CFR 177.1350 requirements. Note: - Apply tests stated in 21CFR 177.1350 section (b)(1) only. - No test for dry food. Dry food means no free fat or oil on the surface.	NA	/
A R	Melamine-formaldehyde resins in molded articles	FDA 21 CFR 177.1460 / CPSD-AN-00002-MTHD	-	Shall comply with FDA 21CFR 177.1460 requirements. Note: - No test for dry food. Dry food means no free fat or oil on the surface.	NA	/
A R	Nylon resins or polyamide	FDA 21 CFR 177.1500 / CPSD-AN-00002-MTHD	-	Shall comply with FDA 21CFR 177.1500 requirements. Note: - Applicable to nylon resins stated in FDA 21 CFR 177.1500 section (b) table, except Nylon 6/12 resins in point 13.1 and 13.2, Nylon 6/69 resins in point 14 and Nylon resin PA 6-3-T in point 16.	NA	/
A R	Olefin polymers	FDA 21 CFR 177.1520 / CPSD-AN-00002-MTHD	-	Shall comply with FDA 21CFR 177.1520 requirements. Note: - Applicable to olefin polymers, including but not limited to polypropylene (PP) homopolymer, polypropylene (PP) copolymer and polyethylene (PE).	M (SEE RESULTS)	PASS
A R	Polycarbonate resins	FDA 21 CFR 177.1580 / CPSD-AN-00002-MTHD	-	Shall comply with FDA 21CFR 177.1580 requirements. Note: - Apply tests stated in 21CFR 177.1580 section (c)(2) only. - Polycarbonate resins is not allowed to use in infant feeding bottles (baby bottles) and spill-proof cups including their closures and lids, designed to help train babies and toddlers to drink from cups (sippy cups).	NA	/
A R	Polyethylene phthalate polymers	FDA 21 CFR 177.1630 / CPSD-AN-00002-MTHD	-	Shall comply with FDA 21CFR 177.1630 requirements. Note: - Applicable to article with condition of use stated in 21CFR 177.1630 section (f), (g)	NA	/



	Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
				and (i) only.		
A R	Polystyrene or rubber-modified polystyrene	FDA 21 CFR 177.1640 / CPSD-AN-00134-MTHD	-	Shall comply with FDA 21CFR 177.1640 requirements. Note: - Apply tests stated in 21CFR 177.1640 section (c) only.	NA	/
A R	Styrene block polymer	FDA 21 CFR 177.1810 / CPSD-AN-00002-MTHD	-	Shall comply with FDA 21CFR 177.1810 requirements. Note: - Apply solubility and maximum extractable fraction tests only.	NA	/
A R	Styrene-methyl methacrylate copolymer	FDA 21 CFR 177.1830 / CPSD-AN-00002-MTHD	-	Shall comply with FDA 21CFR 177.1830 requirements. Note: - No test for dry food. Dry food means no free fat or oil on the surface.	NA	/
A R	Urea-formaldehyde resins in molded articles	FDA 21 CFR 177.1900 / CPSD-AN-00002-MTHD	-	Shall comply with FDA 21CFR 177.1900 requirements. Note: - No test for dry food. Dry food means no free fat or oil on the surface.	NA	/
A R	Polyvinyl chloride	FDA 21 CFR 177.1975 (draft) / CPSD-AN-00099-MTHD	-	Shall comply with FDA 21CFR 177.1975 (draft) requirements.	NA	/
A R	Phenolic resins in molded articles	FDA 21 CFR 177.2410 / CPSD-AN-00427-MTHD	-	Shall comply with FDA 21CFR 177.2410 requirements. Note: - Applicable to repeated use articles in contact with non-acid food (pH above 5.0) only.	NA	/
A R	Crosslinked polyester resins	FDA 21 CFR 177.2420 / CPSD-AN-00002-MTHD	-	Shall comply with FDA 21CFR 177.2420 requirements. Note: - Applicable to repeated use articles or components of articles intended to contact with food. - No test for dry food. Dry food means no free fat or oil on the surface.	NA	/
A R	Polyoxymethylene copolymer	FDA 21 CFR 177.2470 / CPSD-AN-00002-MTHD	-	Shall comply with FDA 21CFR 177.2470 requirements. Note: - Applicable to both finished product and raw material. - Applicable to repeated use articles or components of articles intended to contact with food, but use temperature shall not exceed 250 °F.	NA	/

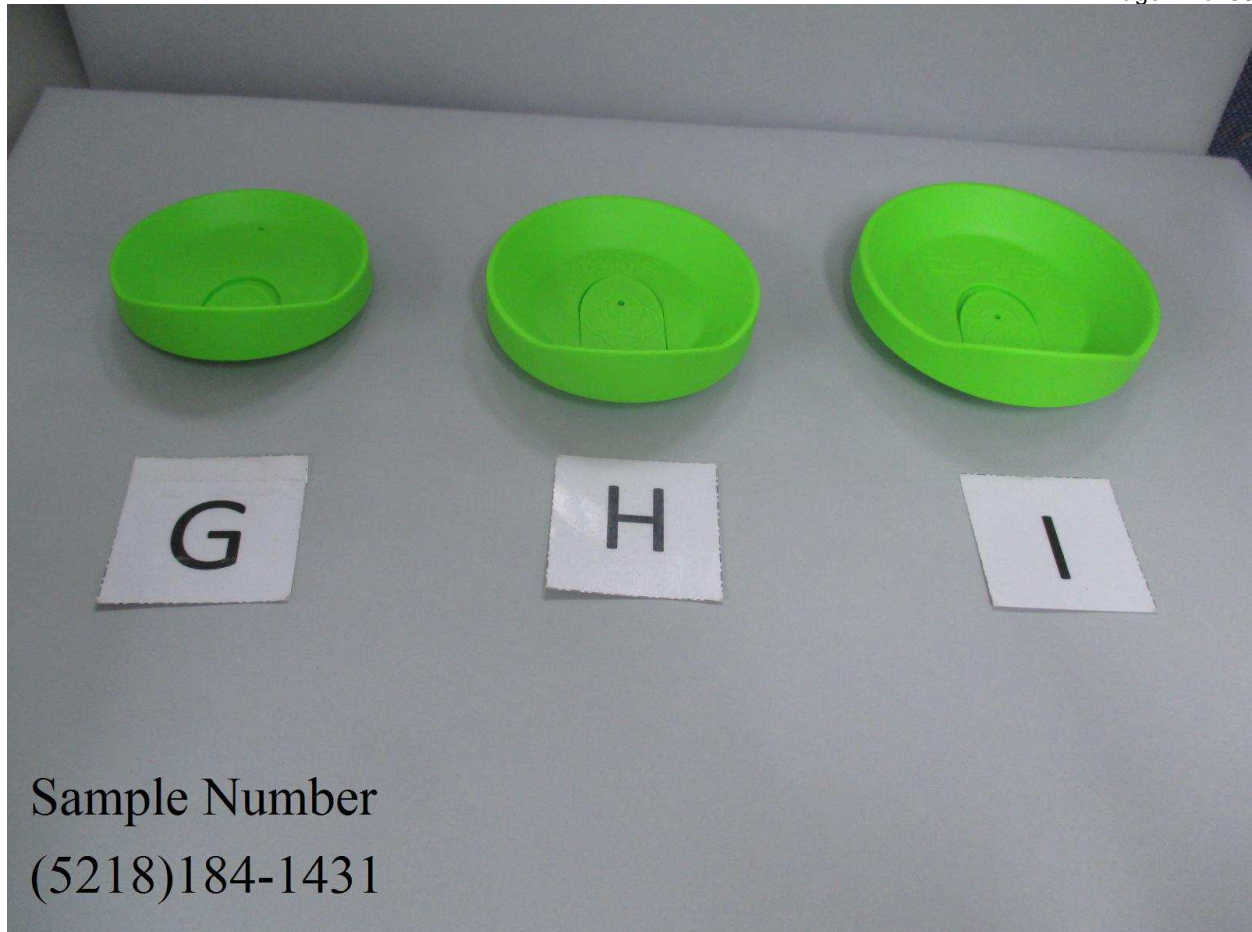


	Evaluation	Citation / Method	No. of Samples	Criteria	Results	Rating
				- No test for dry food. Dry food means no free fat or oil on the surface. - Apply tests stated in 21CFR 177.2470 section (d) only.		
A R	Polyoxymethylene homopolymer	FDA 21 CFR 177.2480 / CPSD-AN-00002-MTHD	-	Shall comply with FDA 21CFR 177.2480 requirements. Note: - Applicable to both finished product and raw material. - Applicable to repeated use articles or components of articles intended to contact with food, but use temperature shall not exceed 250 °F. - No test for dry food. Dry food means no free fat or oil on the surface. - Apply tests stated in 21CFR 177.2480 section (c)(3-4) and (d) only. - For finished product, apply density, melting point and soluble extractive tests only. - For raw material, apply density, melting point, formaldehyde release and soluble extractive tests only.	NA	/
A R	Rubber intended for repeated use	FDA 21 CFR 177.2600 / CPSD-AN-00002-MTHD	-	Shall comply with FDA 21CFR 177.2600 requirements. Note: - Not applicable to rubber nursing-bottle nipples.	NA	/
A R	Acrylonitrile copolymer and resins	FDA 21 CFR 181.32 / CPSD-AN-00155-MTHD	-	Shall comply with FDA 21CFR 181.32 requirements. Note: - Test acrylonitrile copolymer and resins with acrylonitrile less than 30% only.	NA	/
A R	Polyethersulfone resins	FDA 21 CFR 177.2440 / CPSD-AN-00002-MTHD	30g	Shall comply with FDA 21CFR 177.2440 requirements.	NA	/

Note 1: Testing charge per material per color.



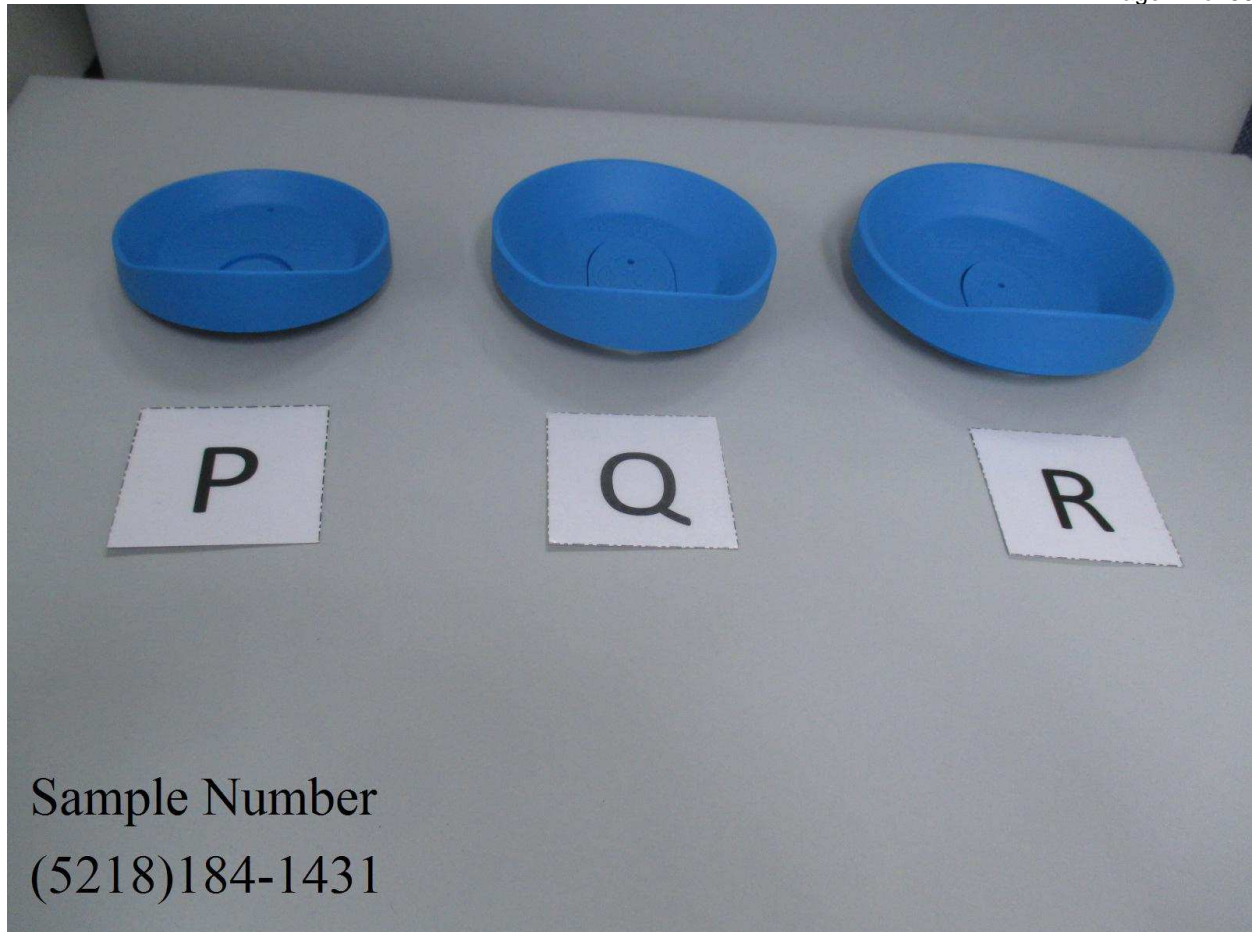




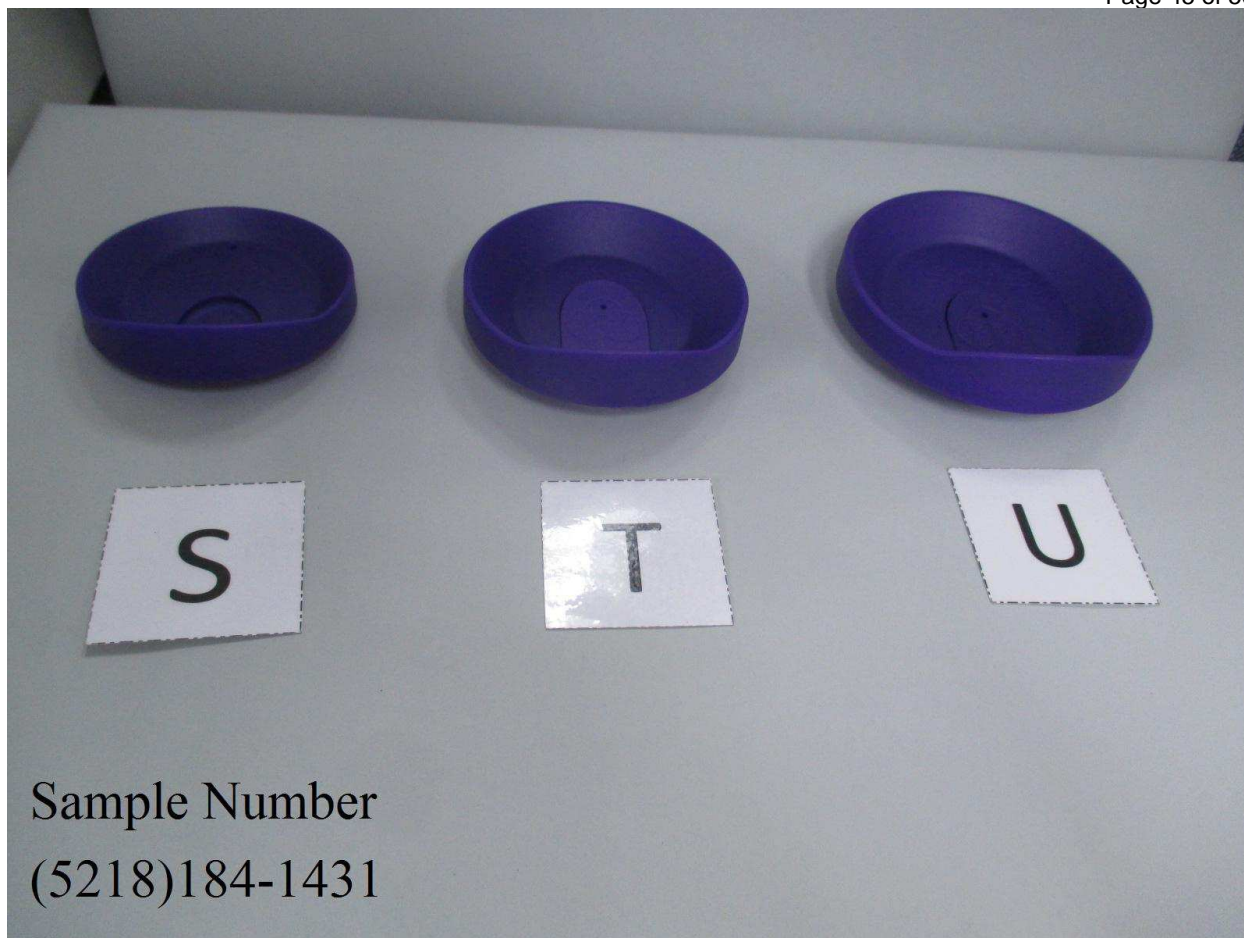


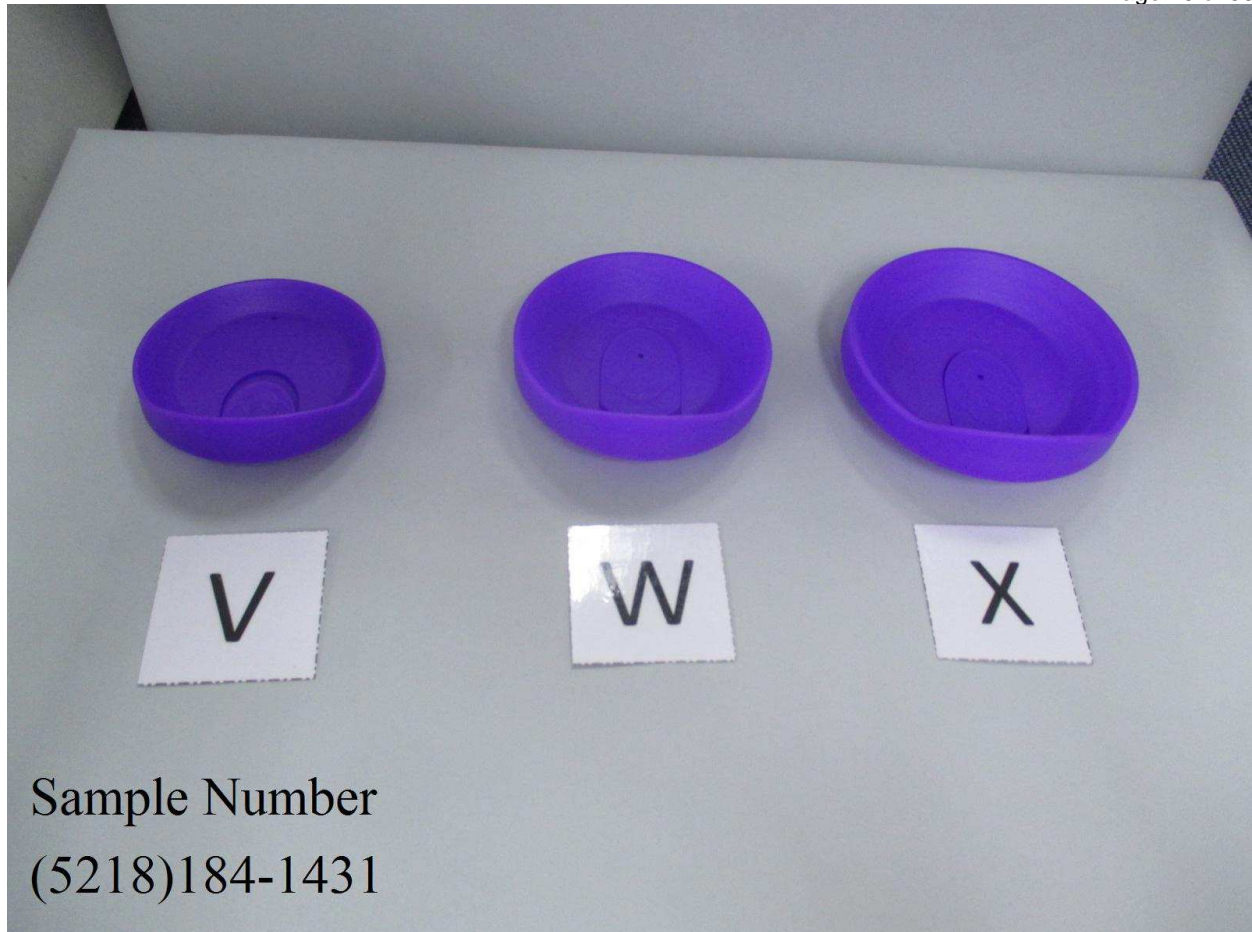


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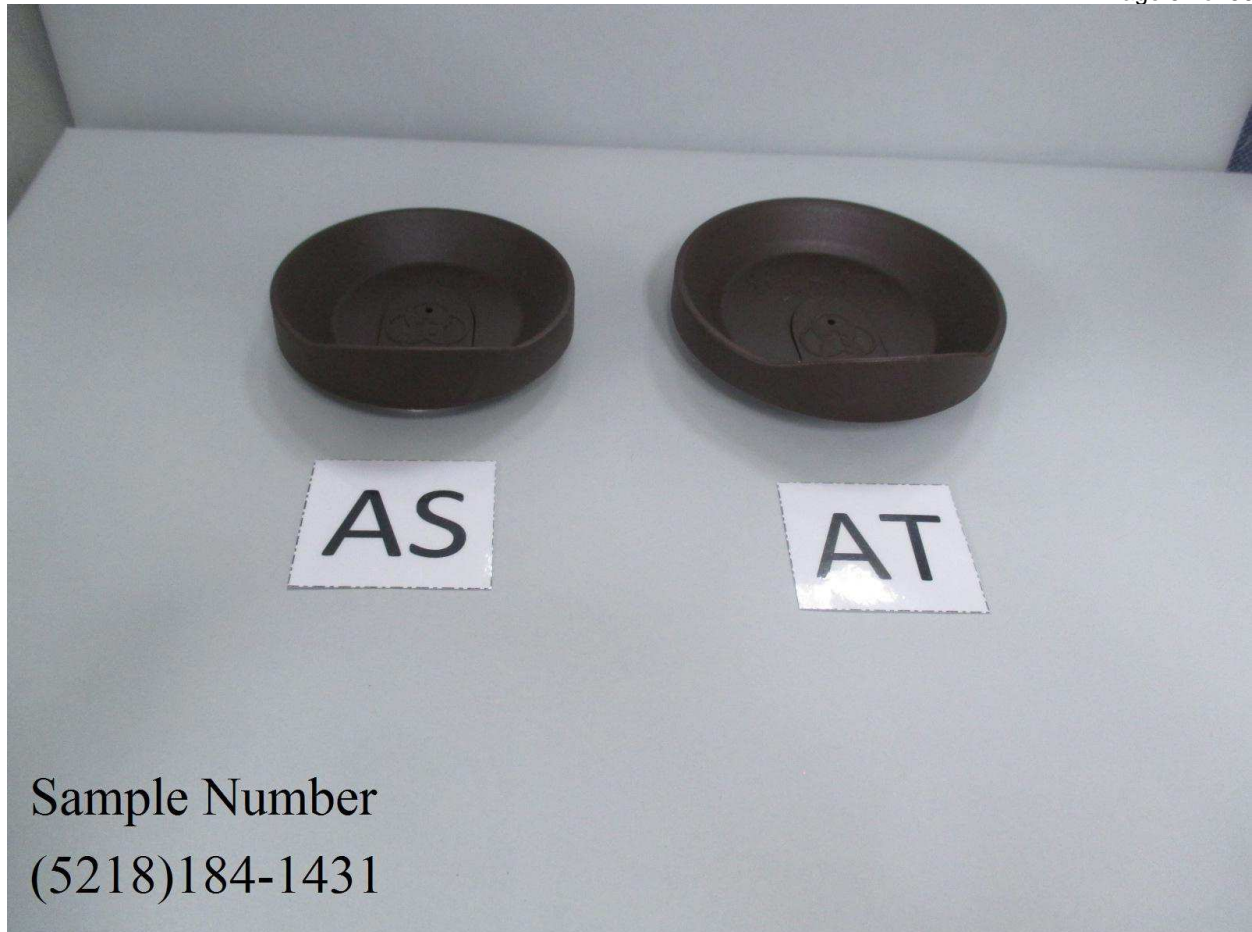
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