

CRECIMIENTO INDUSTRIAL CO., LTD.  
12TH-2FL, NO 292, RENHE RD., SOUTH DIST., TAICHUNG CITY, 40254, TAIWAN

The following sample(s) was/were submitted and identified on behalf of the buyer as:

FOOTWEAR TESTING FOR SOFTLINES			
Buyer	Hugo Boss	HB No.	/
Retest	No	Previous Report No.	/
Phase	Production		
Category	/		
Sample Description	pu foam		
Material Composition	(A)POLYURETHANE; (B)POLYURETHANE		
Order No.	/	Vendor	/
Hugo Boss Division	/	Campaign Test	No
Style No.	/	MPG	/
Form Name	/	Colour	(A)BLACK; (B)LIGHT BLUE
Quality No.	/	Season	/
Batch No.	/	Brand/ Gender/ Line	/
Article No.	pu foam	End Use	(A)/; (B)/
Country of Origin	/	Country of Destination	
Applicant's Proposed Care Instructions	/		
Additional Information	/		

Sample Receiving Date

Jul 01, 2019

Test Performing Period

Jul 01, 2019 ~ Jul 11, 2019

Overall Conclusion

PASS



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Conclusion		Remark
Odour	M	
Formaldehyde(All materials except leather)	M	
Alkylphenols (AP)	M	
Azo Dyes and Arylamine Salts in textile	M	
Bisphenols	M	
Chlorinated Paraffins	M	
Dimethyl Formamide(DMFA)	M	
Extractable Heavy Metal in textile	M	
Forbidden and Disperse Dyestuffs	M	
Navy Blue	M	
Organotins	M	
Phthalates	M	
Polycyclic Aromatic Hydrocarbons (PAHs)	M	
Total Heavy Metal in Textile(As,Cd and Hg)	M	
Total Lead in Substrate Materials in Non-metallic materials	M	
Volatile Organic Compounds(VOC)	M	
Monomer – Vinyl Chloride	M	
Monomer - Styrene	M	

Remark(s) : M = Meets specified requirement

Signed for and on behalf of  
 SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Huang Asan  
 Approved Signatory

This test report refer only to the samples tested



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**COMPONENT LIST / List of Materials**

Sample No.	Component No.	Description	Material	Color	Remark
A	-	FOAM		BLACK	
A	1	Dark grey Foam	Foam	Dark grey	
B	-	FOAM		LIGHT BLUE	
B	2	Light blue foam	Foam	Light blue	



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Test Result

**Odour**

(GB 18401-2010, Clause 6.7.;

	Unit	(A)	(B)	Requirement
Odour Rating	-	No abnormal odor	No abnormal odor	No abnormal odor

Remark:

- No.1 Smelling of mould
- No.2 Smelling of high boiling point petroleum
- No.3 Smelling of fish
- No.4 Smelling of aromatic hydrocarbon
- No.5 Other unacceptable odour

**Alkylphenols (AP)**

Test Method: Polymer: In house method – Solvent Extraction. Analysis was conducted by HPLC-MS / GC-MS.

	CAS-No.	Result
		<b>1+2</b>
Nonylphenol (NP)	--	n.d.
Octylphenol (OP)	--	n.d.
Sum of NP & OP	--	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d. = Not Detected  
 mg/kg = ppm  
 \* = Exceed the limit  
 Detection Limit = 10 mg/kg (for individual substance)

**Requirement:**  
**Sum of NP & OP 100 mg/kg**



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**Azo Dyes and Arylamine Salts (Direct Reduction)**

Test Method: Textile: According to EN ISO 14362-1:2017. Analysis was performed by GC-MS/HPLC-DAD. Determination of 4-aminoazobenzene (CAS No.:60-09-3)-EN ISO 14362-3:2017; with the use of GC-MS/ HPLC-DAD.

	<b>CAS-No.</b>	<b>Result</b>
		<b>1+2</b>
4-Aminobiphenyl	92-67-1	n.d.
Benzidine	92-87-5	n.d.
4-Chlor-o-toluidine	95-69-2	n.d.
2-Naphthylamine	91-59-8	n.d.
o-Aminoazotoluene	97-56-3	n.d.
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	n.d.
4-Chloroaniline	106-47-8	n.d.
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	n.d.
4,4'-Diaminodiphenylmethane	101-77-9	n.d.
3,3'-Dichlorobenzidine	91-94-1	n.d.
3,3'-Dimethoxybenzidine	119-90-4	n.d.
3,3'-Dimethylbenzidine	119-93-7	n.d.
4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	n.d.
p-Cresidine	120-71-8	n.d.
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	n.d.
4,4'-Oxydianiline	101-80-4	n.d.
4,4'-Thiodianiline	139-65-1	n.d.
o-Toluidine	95-53-4	n.d.
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine	95-80-7	n.d.
2,4,5-Trimethylaniline	137-17-7	n.d.
4-aminoazobenzene	60-09-3	n.d.
O-Anisidine	90-04-0	n.d.
2,6-Xylidine	87-62-7	n.d.
2,4-Xylidine	95-68-1	n.d.
4-chloro-o-toluidinium chloride+	3165-93-3	n.d.
2-Naphthylammoniumacetate+	553-00-4	n.d.
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate+	39156-41-7	n.d.
2,4,5-trimethylaniline hydrochloride+	21436-97-5	n.d.
<b>Conclusion</b>	<b>--</b>	<b>PASS</b>

Note: n.d. = not detected



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mg/kg = ppm

\* = exceed the limit

+ = result was back calculated based on the determination of its amine

@ = The amine was detected according to ISO 14362-1:2017 with the reducing agent. A similar result was obtained from the procedure carried out without the reducing agent. According to ISO 14362-1:2017 Annex C.2.1.2.2, the amine originated from a source other than azo colorants.

^ = The amine was detected according to ISO 14362-1:2017 with the reducing agent. Confirmation procedure was carried out without reducing agent, according to ISO 14362-1:2017 Annex C.2.1.2.2, the amine originated from azo colorants.

Detection Limit = 5 mg/kg (for individual compound)

**Requirement: 20 mg/kg (for individual compound)**

Remark: Direct reduction refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses.

4-Aminodiphenyl (CAS number 92-67-1), 2-Naphthylamine (CAS number 91-59-8) and 4-Methoxy-m-phenylene-diamine (CAS number 615-05-4) can be indirectly generated from some colorants which do not contain these amines azo bound. The use of banned azo colorants cannot be reliably ascertained without additional information.

In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylene-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.

In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

The EN ISO 14362-1:2017 methods will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine. If aniline and/or 1,4-phenylenediamine is not found (i.e. 5.0 mg/kg) by mentioned test method, test result for 4-aminoazobenzene (CAS no. 60-09-3) is considered as "not detected" (i.e. <5.0 mg/kg). Otherwise, the test method of EN ISO 14362-3:2017 will be employed to verify the presence of 4-aminoazobenzene.

# Exceed the limit of the composite test and Individual testing of mixed components is performed automatically as per CLIENT requested.

Relevant Limit for composite test:

2-in-1 mix: 8 mg/kg

3-in-1 mix: 5.3 mg/kg



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**Azo Dyes and Arylamine Salts (Colorant Extraction)**

Test Method: Textile: According to EN ISO 14362-1:2017. Analysis was performed by GC-MS/HPLC-DAD.  
 Determination of 4-aminoazobenzene (CAS No.:60-09-3)-EN ISO 14362-3:2017; with the use of GC-MS/ HPLC-DAD.

	CAS-No.	Result(mg/kg)		
		1+2	1	2
4-Aminobiphenyl	92-67-1	n.d.	n.d.	n.d.
Benzidine	92-87-5	n.d.	n.d.	n.d.
4-Chlor-o-toluidine	95-69-2	n.d.	n.d.	n.d.
2-Naphthylamine	91-59-8	n.d.	n.d.	n.d.
o-Aminoazotoluene	97-56-3	n.d.	n.d.	n.d.
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	n.d.	n.d.	n.d.
4-Chloroaniline	106-47-8	n.d.	n.d.	n.d.
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	n.d.	n.d.	n.d.
4,4'-Diaminodiphenylmethane	101-77-9	n.d.	n.d.	n.d.
3,3'-Dichlorobenzidine	91-94-1	n.d.	n.d.	n.d.
3,3'-Dimethoxybenzidine	119-90-4	n.d.	n.d.	n.d.
3,3'-Dimethylbenzidine	119-93-7	n.d.	n.d.	n.d.
4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	n.d.	n.d.	n.d.
p-Cresidine	120-71-8	n.d.	n.d.	n.d.
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	n.d.	n.d.	n.d.
4,4'-Oxydianiline	101-80-4	n.d.	n.d.	n.d.
4,4'-Thiodianiline	139-65-1	n.d.	n.d.	n.d.
o-Toluidine	95-53-4	n.d.	n.d.	n.d.
4-methyl-m-phenylenediamine / 2,4-Toluylendiamine	95-80-7	10	11	10
2,4,5-Trimethylaniline	137-17-7	n.d.	n.d.	n.d.
4-aminoazobenzene	60-09-3	n.d.	n.d.	n.d.
O-Anisidine	90-04-0	n.d.	n.d.	n.d.
2,6-Xylidine	87-62-7	n.d.	n.d.	n.d.
2,4-Xylidine	95-68-1	n.d.	n.d.	n.d.
4-chloro-o-toluidinium chloride+	3165-93-3	n.d.	n.d.	n.d.
2-Naphthylammoniumacetate+	553-00-4	n.d.	n.d.	n.d.
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate+	39156-41-7	n.d.	n.d.	n.d.
2,4,5-trimethylaniline hydrochloride+	21436-97-5	n.d.	n.d.	n.d.
<b>Conclusion</b>	--	<b>#</b>	<b>PASS</b>	<b>PASS</b>

Note: n.d. = not detectable  
 mg/kg = ppm  
 \* = Exceed the limit  
 + = result was back calculated based on the determination of its amine  
 @ = The amine was detected according to ISO 14362-1:2017 with the reducing



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agent. A similar result was obtained from the procedure carried out without the reducing agent. According to ISO 14362-1:2017 Annex C.2.1.2.2, the amine originated from a source other than azo colorants.

^ = The amine was detected according to ISO 14362-1:2017 with the reducing agent. Confirmation procedure was carried out without reducing agent, according to ISO 14362-1:2017 Annex C.2.1.2.2, the amine originated from azo colorants.  
 Detection Limit = 5 mg/kg (for individual compound)

**Requirement: 20 mg/kg (for individual compound)**

**Remark:**

Colorant extraction refers to the colourant extraction and subsequent reduction according to EN ISO 14362-1:2017 clause 10.1 and relevant clauses.

4-Aminodiphenyl (CAS number 92-67-1), 2-Naphthylamine (CAS number 91-59-8) and 4-Methoxy-m-phenylene-diamine (CAS number 615-05-4) can be indirectly generated from some colorants which do not contain these amines azo bound. The use of banned azo colorants cannot be reliably ascertained without additional information.

In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylene-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.

In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

The EN ISO 14362-1:2017 methods will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine. If aniline and/or 1,4-phenylenediamine is not found (i.e. 5.0 mg/kg) by mentioned test method, test result for 4-aminoazobenzene (CAS no. 60-09-3) is considered as "not detected" (i.e. <5.0 mg/kg). Otherwise, the test method of EN ISO 14362-3:2017 will be employed to verify the presence of 4-aminoazobenzene.

# Exceed the limit of the composite test and Individual testing of mixed components is performed automatically as per CLIENT requested.

Relevant Limit for composite test:

2-in-1 mix: 8 mg/kg

3-in-1 mix: 5.3 mg/kg



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**Bisphenols**

Test Method: THF extraction. Analysis was conducted by LC-MS.

	<u>CAS-No.</u>	<u>Result</u>
		<b>1+2</b>
Bisphenol A (BPA)	80-05-7	n.d.
<b>Conclusion</b>	--	<b>PASS</b>
Bisphenol S (BPS)	80-09-1	n.d.
Bisphenol F (BPF)	620-92-8	n.d.
Bisphenol AF (BPAF)	1478-61-1	n.d.
<b>Conclusion</b>	--	<b>INFO ONLY</b>

Note: n.d. = Not detected  
 mg/kg = ppm  
 \* = Exceed the limit  
 Detection Limit = 1 mg/kg (for individual compound)

**Requirement**  
**BPA** 1 mg/kg  
**Others** INFO ONLY

**Chlorinated Paraffins**

Test Method: With reference to combined CADS / EN ISO 18219: 2015. Analysis was conducted by GC-NCI-MS.

	<u>CAS-No.</u>	<u>Result</u>
		<b>1+2</b>
Short Chain Chlorinated Paraffins (SCCP)	--	n.d.
Medium Chain Chlorinated Paraffins (MCCP)	--	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d. = Not detected  
 mg/kg = ppm  
 \* = Exceeds the limit  
 Detection Limit = 100 mg/kg (for individual compound)

**Requirement: 1000 mg/kg (for individual compound)**



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**Dimethyl Formamide**

Test Method: With reference to ISO/TS 16189: 2013. Analysis was performed by GC/MS.

	<b>CAS-No.</b>	<b>Result</b>
Dimethyl Formamide (DMFa)	68-12-2	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d. = Not detected  
 mg/kg = ppm  
 \*= Exceed the limit  
 Detection Limit = 50 mg/kg

**Requirement: 500 mg/kg**



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**Forbidden and Disperse Dyestuffs**

Test Method: With reference to DIN 54231:2005. Analysis was performed with HPLC-DAD-MSD.

	<b>CAS-No.</b>	<b>Result</b>
		<b>1+2</b>
Disperse Blue 1	2475-45-8	n.d.
Disperse Blue 3	2475-46-9	n.d.
Disperse Blue 7	3179-90-6	n.d.
Disperse Blue 26	3860-63-7	n.d.
Disperse Blue 35A	56524-77-7	n.d.
Disperse Blue 35B	56524-76-6	n.d.
Disperse Blue 102	12222-97-8	n.d.
Disperse Blue 106	12223-01-7	n.d.
Disperse Blue 124	61951-51-7	n.d.
Disperse Brown 1	23355-64-8	n.d.
Disperse Orange 1	2581-69-3	n.d.
Disperse Orange 3	730-40-5	n.d.
Disperse Orange 11	82-28-0	n.d.
Disperse Orange 149	85136-74-9	n.d.
Disperse Orange 37/76/59	13301-61-6	n.d.
Disperse Red 1	2872-52-8	n.d.
Disperse Red 11	2872-48-2	n.d.
Disperse Red 17	3179-89-3	n.d.
Disperse Red 151	61968-47-6	n.d.
Disperse Yellow 1	119-15-3	n.d.
Disperse Yellow 3	2832-40-8	n.d.
Disperse Yellow 7	6300-37-4	n.d.
Disperse Yellow 9	6373-73-5	n.d.
Disperse Yellow 23	6250-23-3	n.d.
Disperse Yellow 39	12236-29-2	n.d.
Disperse Yellow 49	54824-37-2	n.d.
Disperse Yellow 56	54077-16-6	n.d.
Acid Red 26	3761-53-3	n.d.
Basic Red 9	569-61-9	n.d.
Basic Blue 26 (with Michler's ketone >0.1%)	2580-56-5	n.d.
Basic Violet 3	548-62-9	n.d.
Basic Violet 14	632-99-5	n.d.
Basic Green 4 (malachite green chloride)	569-64-2	n.d.
Basic Green 4 (malachite green oxalate)	2437-29-8	n.d.
Basic Green 4 (malachite green)	10309-95-2	n.d.
Direct Black 38	1937-37-7	n.d.
Direct Blue 6	2602-46-2	n.d.



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Direct Red 28	573-58-0	n.d.
Direct Brown 95	16071-86-6	n.d.
4-Dimethylaminoazobenzene (Solvent Yellow 2)	60-11-7	n.d.
Solvent Blue 4	6786-83-0	n.d.
4,4'-Bis(dimethylamino)-4''- (methylamino)trityl alcohol	561-41-1	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d. = not detected  
 mg/kg = ppm  
 \* = Exceeds the limit  
 Detection Limit = 15 mg/kg (for individual compound)

**Requirement: 50 mg/kg (for individual compound)**

**Navy Blue**

Test Method: With reference to DIN 54231:2005. Analysis was performed by LC-DAD / LC-MSD.

	<b>CAS-No.</b>	<b>Result</b>
Navy Blue	--	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d. = not detected  
 mg/kg = ppm  
 \* = Exceed the limit  
 Detection Limit = 15 mg/kg

**Requirement: 50 mg/kg**



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**Formaldehyde**

Test Method: Textile: With reference to DIN ISO 14184-1:2011. Analysis was performed by UV/VIS spectrophotometer.

	<u>CAS-No.</u>	<u>Result</u>
		<b>1+2</b>
Formaldehyde	50-00-0	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d. = not detected  
 mg/kg = ppm  
 \* = exceed the limit  
 Detection limit = 16 mg/kg

**Requirement:**

**Babies** 16 mg/kg  
**Others** 75 mg/kg



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**Total Cadmium Content**

Test Method: Textile: With reference to DIN EN 16711-1:2016. Analysis was conducted by ICP-OES or ICP-MS.

	<u>CAS-No.</u>	<u>Result</u>
		<u>1+2</u>
Cadmium (Cd)	7440-43-9	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d.= Not detected  
 mg/kg = ppm  
 \* = Exceeds the limit  
 Detection limit = 5 mg/kg

**Requirement: 40 mg/kg**

**Total Mercury Content**

Test Method: Textile: With reference to DIN EN 16711-1:2016. Analysis was conducted by ICP-MS.

	<u>CAS-No.</u>	<u>Result</u>
		<u>1+2</u>
Mercury (Hg)	7439-97-6	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d.= Not detected  
 mg/kg = ppm  
 \* = Exceeds the limit  
 Detection limit = 0.1 mg/kg

**Requirement: 0.5 mg/kg**



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**Total Arsenic Content**

Test Method: Textile: With reference to DIN EN 16711-1:2016. Analysis was conducted by ICP-OES or ICP-MS.

	<u>CAS-No.</u>	<u>Result</u>
		<b>1+2</b>
Arsenic (As)	7440-38-2	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d.= Not detected  
 mg/kg = ppm  
 \* = Exceeds the limit  
 Detection limit = 10 mg/kg

**Requirement: 100 mg/kg**

**Total Lead Content**

Test Method: Non-Metal: With reference to CPSC-CH-E1002-08.3. Analysis was conducted by ICP-OES or ICP-MS.

	<u>CAS-No.</u>	<u>Result</u>
		<b>1+2</b>
Lead (Pb)	7439-92-1	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d.= Not detected  
 mg/kg = ppm  
 \* = Exceeds the limit  
 Detection limit = 10 mg/kg

**Requirement: 90 mg/kg**



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**Monomer – Vinyl Chloride**

Test Method: With reference to EN ISO 6401:2008. Analysis was performed by Headspace GC-MS.

	<u>CAS-No.</u>	<u>Result</u>
Vinyl Chloride	75-01-4	<u>1+2</u> n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d. = not detected  
 mg/kg = ppm  
 \* = Exceeds the limit  
 Detection limit = 1 mg/kg

**Requirement: 1.0 mg/kg**

Remark: # Exceed the limit of the composite test and Individual testing of mixed components is performed automatically as per client requested.

**Monomer - Styrene**

Test Method: In house Method – Solvent Extraction. Analysis was conducted by GC-MS.

	<u>CAS-No.</u>	<u>Result</u>
Styrene	100-42-5	<u>1+2</u> n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d. = not detected  
 mg/kg = ppm  
 \* = Exceed the limit  
 Detection limit: 50 mg/kg

**Requirement 500 mg/kg**



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**Organotins**

Test Method: With reference to CEN ISO/TS 16179:2012. Analysis was conducted by GC-MS.

	<u>CAS-No.</u>	<u>Result</u>
		<b>1+2</b>
Dibutyltin (DBT)	--	n.d.
Diocetyl tin (DOT)	--	n.d.
Monobutyltin (MBT)	--	0.1 mg/kg
Tricyclohexyltin (TCyT)	--	n.d.
Trimethyltin (TMT)	--	n.d.
Triocetyl tin (TOT)	--	n.d.
Tripropyltin (TPT)	--	n.d.
Tributyltin (TBT)	--	n.d.
Triphenyltin (TPhT)	--	n.d.
<b>Conclusion</b>	--	<b>PASS</b>
Dimethyltin (DMT)	--	n.d.
Monocetyl tin (MOT)	--	n.d.
Tetrabutyltin (TeBT)	--	n.d.
<b>Conclusion</b>	--	<b>MONITORING</b>

Note: n.d.= not detected  
 mg/kg = ppm  
 \* = Exceed the limit  
 Detection Limit = 0.1 mg/kg (for individual substance)

**Requirement:**

**DBT, DOT, MBT, TCyT, TMT, TOT, TPT** 1.0 mg/kg (for individual substance)  
**TBT, TPhT** 0.5 mg/kg (for individual substance)



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**Phthalates**

Test Method: With reference to CPSC-CH-C1001-09.4. Analysis was conducted by GC-MS.

	<b>CAS-No.</b>	<b>Result</b>
		<b>1+2</b>
Diisononyl Phthalate (DINP)	28553-12-0	n.d.
Di-n-octyl Phthalate (DNOP)	117-84-0	n.d.
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	n.d.
Diisodecyl Phthalate (DIDP)	26761-40-0	n.d.
Benzylbutyl Phthalate (BBP)	85-68-7	n.d.
Dibutyl Phthalate (DBP)	84-74-2	n.d.
Diisobutyl phthalate (DIBP)	84-69-5	n.d.
Di-n-Hexylphthalate (DnHP)	84-75-3	n.d.
Diethylphthalate (DEP)	84-66-2	n.d.
Dimethylphthalate (DMP)	131-11-3	n.d.
Di-n-pentylphthalate (DnPP)	131-18-0	n.d.
Dicyclohexyl phthalate (DCHP)	84-61-7	n.d.
Di-C6-8 branched alkylphthalate (DIHP)	71888-89-6	n.d.
Bis (2-methoxyethyl) phthalate (DMEP)	117-82-8	n.d.
Diisopentylphthalate (DiPP)	605-50-5	n.d.
Di-n-propyl phthalate (DPRP)	131-16-8	n.d.
Di-isooctyl phthalate (DIOP)	27554-26-3	n.d.
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear standard (DIHP)	68515-50-4	n.d.
Di-C7-11 branched alkylphthalate (DHNU)	68515-42-4	n.d.
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DPP)	84777-06-0	n.d.
Sum	--	n.d.
<b>Conclusion</b>	--	<b>PASS</b>
N-pentyl-isopentyl phthalate (nPiPP)	776297-69-9	n.d.
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5 / 68648-93-1	n.d.
Dinonyl phthalate (DNP)	84-76-4	n.d.
<b>Conclusion</b>	--	<b>MONITORING</b>

Note: n.d. = not detected  
 mg/kg = ppm  
 \* = Exceed the limit  
 Detection limit: 50 mg/kg (for individual substance)

**Requirement**

Each  
 Sum

500 mg/kg  
 1000 mg/kg



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**Polyaromatic hydrocarbons Content (PAH)**

Test Method: With reference to AfPS GS 2014:01 PAK. Analysis was conducted by GC-MS.

	<b>CAS-No.</b>	<b>Result</b>
		<b>1+2</b>
Acenaphthene (ANA)	83-32-9	n.d.
Acenaphthylene (ANY)	208-96-8	n.d.
Anthracene (ANT)	120-12-7	n.d.
Benzo[g,h,i]perylene (BPE)	191-24-2	n.d.
Fluorene (FLU)	86-73-7	n.d.
Fluoranthene (FLT)	206-44-0	n.d.
Indeno[1,2,3-cd]pyrene (IPY)	193-39-5	n.d.
Naphthalene (NAP)	91-20-3	0.3 mg/kg
Phenanthrene (PHE)	85-01-8	n.d.
Pyrene (PYR)	129-00-0	n.d.
Benzo[a]anthracene (BaA)	56-55-3	n.d.
Benzo[a]pyrene (BaP)	50-32-8	n.d.
Benzo[b]fluoranthene (BbF)	205-99-2	n.d.
Benzo[e]pyrene (BeP)	192-97-2	n.d.
Benzo[j]fluoranthene (BjF)	205-82-3	n.d.
Benzo[k]fluoranthene (BkF)	207-08-9	n.d.
Chrysene (CHR)	218-01-9	n.d.
Dibenzo[a,h]anthracene (DBA)	53-70-3	n.d.
Sum	--	0.3 mg/kg
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d. = Not detected  
 mg/kg = ppm  
 \* = Exceeds the limit  
 Detection Limit = 0.2 mg/kg (for individual substance)

**Requirement:**

	<b>Childcare Article</b>	<b>Others</b>
Benzo[a]anthracene	0.5 mg/kg	1 mg/kg
Benzo[a]pyrene	0.5 mg/kg	1 mg/kg
Benzo[b]fluoranthene	0.5 mg/kg	1 mg/kg
Benzo[e]pyrene	0.5 mg/kg	1 mg/kg
Benzo[j]fluoranthene	0.5 mg/kg	1 mg/kg
Benzo[k]fluoranthene	0.5 mg/kg	1 mg/kg
Chrysene	0.5 mg/kg	1 mg/kg
Dibenzo[a,h]anthracene	0.5 mg/kg	1 mg/kg
Sum of 18 PAH	10 mg/kg	10 mg/kg



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**Volatile Organic Compounds**

Test Method: DMAC: With reference to DIN CEN ISO/TS 16189:2013. Analysis was conducted by GC-MS.  
Others: In house method. Analysis was conducted by headspace GC-MS.

	<b>CAS-No.</b>	<b>Result</b>
		<b>1+2</b>
Benzene	71-43-2	n.d.
Carbon disulfide	75-15-0	n.d.
Carbon Tetrachloride	56-23-5	n.d.
Chloroform	67-66-3	n.d.
Cyclohexanone	108-94-1	n.d.
1,2-Dichloroethane	107-06-2	n.d.
1,1-Dichloroethylene	75-35-4	n.d.
Ethylbenzene	100-41-4	n.d.
Pentachloroethane	76-01-7	n.d.
1,1,1,2- Tetrachloroethane	630-20-6	n.d.
1,1,2,2- Tetrachloroethane	79-34-5	n.d.
Tetrachloroethylene (PER)	127-18-4	n.d.
Toluene	108-88-3	n.d.
1,1,1- Trichloroethane	71-55-6	n.d.
1,1,2- Trichloroethane	79-00-5	n.d.
Trichloroethylene	79-01-6	n.d.
Xylenes (meta-, ortho-, para-)	1330-20-7	n.d.
Sum of VOCs (Except Benzene)	--	n.d.
<b>Conclusion</b>	<b>--</b>	<b>PASS</b>
Cyclohexane	110-82-7	n.d.
1,2,3-Trichloropropane	96-18-4	n.d.
Furan	110-00-9	n.d.
1-Bromopropane	106-94-5	n.d.
Methyl Ethyl Ketone (MEK)	78-93-3	n.d.
p-Cresol/m-Cresol	108-39-4/106-44-5	n.d.
o-Cresol	95-48-7	n.d.
<b>Conclusion</b>	<b>--</b>	<b>MONITORING</b>

Note: n.d. = not detected  
mg/kg = ppm  
\* = Exceed the limit  
Detection limit  
Benzene = 5 mg/kg  
Others = 20 mg/kg (for individual substance)

**Requirement:**

**Benzene** 5 mg/kg  
**Sum of VOCs (Except benzene)** 1000 mg/kg



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**Extractable Heavy Metal**

Test Method: Textile: With reference to EN 16711-2:2015. Analysis with ICP-OES / ICP-MS and UV-VIS for Cr VI.

	<b>CAS-No.</b>	<b>Result</b>
		<b>1+2</b>
Antimony (Sb)	7440-36-0	n.d.
Arsenic (As)	7440-38-2	n.d.
Barium (Ba)	7440-39-3	n.d.
Cadmium (Cd)	7440-43-9	n.d.
Chromium (Cr)	7440-47-3	n.d.
Chromium VI (Cr(VI))	18540-29-9	n.d.
Cobalt (Co)	7440-48-4	n.d.
Copper (Cu)	7440-50-8	n.d.
Lead (Pb)	7439-92-1	n.d.
Mercury (Hg)	7439-97-6	n.d.
Nickel (Ni)	7440-02-0	n.d.
Selenium (Se)	7782-49-2	n.d.
<b>Conclusion</b>	<b>--</b>	<b>PASS</b>

Note: n.d. = Not detected  
 mg/kg = ppm  
 \* = Exceed the limit

<b>Requirement:</b>	<b>Detection Limit (mg/kg)</b>	<b>Babies (mg/kg)</b>	<b>Children (mg/kg)</b>	<b>Adults (mg/kg)</b>
Antimony (Sb)	3.0	30.0	30.0	30.0
Arsenic (As)	0.1	0.2	0.2	0.2
Barium (Ba)	100.0	1000	1000	1000
Cadmium (Cd)	0.05	0.1	0.1	0.1
Chromium (Cr)	0.5	2.0	2.0	2.0
Chromium VI (CrVI)	0.5	1.0	1.0	1.0
Cobalt (Co)	0.5	1.0	1.0	4.0
Copper (Cu)	5.0	25.0	25.0	50.0
Lead (Pb)	0.1	0.2	1.0	1.0
Mercury (Hg)	0.02	0.02	0.02	0.02
Nickel (Ni)	0.1	1.0	1.0	1.0
Selenium (Se)	50.0	500	500	500

Remark: # Exceed the limit of the composite test and Individual testing of mixed components is performed automatically as per CLIENT requested.

<b>2-in-1</b>	<b>Babies (mg/kg)</b>	<b>Children (mg/kg)</b>	<b>Adults (mg/kg)</b>
Antimony (Sb)	12	12	12
Arsenic (As)	0.1	0.1	0.1
Barium (Ba)	400	400	400



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Cadmium (Cd)	0.05	0.05	0.05
Chromium (Cr)	0.8	0.8	0.8
Chromium VI (CrVI)	0.4	0.4	0.4
Cobalt (Co)	0.5	0.5	1.6
Copper (Cu)	10.0	10.0	20.0
Lead (Pb)	0.1	0.4	0.4
Mercury (Hg)	0.02	0.02	0.02
Nickel (Ni)	0.4	0.4	0.4
Selenium (Se)	200	200	200

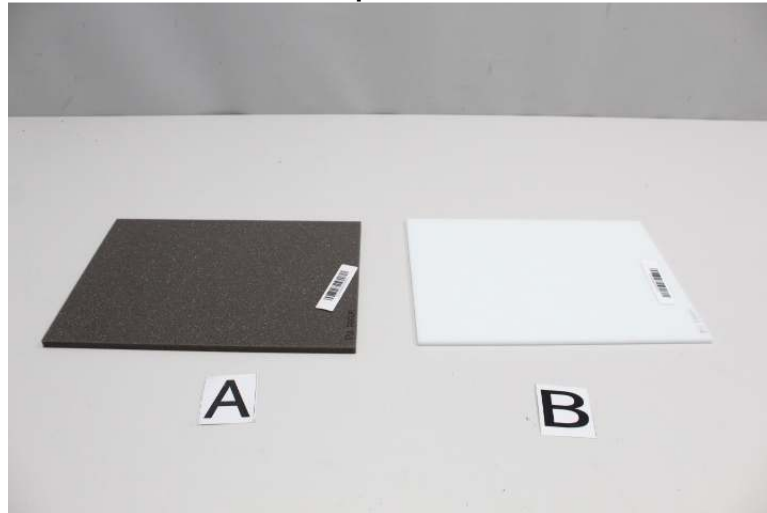
3-in-1	<u>Babies</u> (mg/kg)	<u>Children</u> (mg/kg)	<u>Adults</u> (mg/kg)
Antimony (Sb)	8	8	8
Arsenic (As)	0.1	0.1	0.1
Barium (Ba)	267	267	267
Cadmium (Cd)	0.05	0.05	0.05
Chromium (Cr)	0.53	0.53	0.53
Chromium VI (CrVI)	0.26	0.26	0.26
Cobalt (Co)	0.27	0.27	1.1
Copper (Cu)	6.67	6.67	13.3
Lead (Pb)	0.1	0.27	0.27
Mercury (Hg)	0.02	0.02	0.02
Nickel (Ni)	0.27	0.27	0.27
Selenium (Se)	133	133	133



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



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