

Test Report

SL91939287529601FW

Date: September 16, 2019

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CRECIMIENTO INDUSTRIAL CO.,LTD
2ND IND.ESTATE,BAISHI SANXIANG,ZHONGSHAN
CITY,GUANGDONG PROVINCE,CHINA

OVERALL EVALUATION			
	BABY	CHILDREN(NON-BABY)	ADULT
PASS	√	√	√
FAIL			

Buyer:	DECKERS		
Material Supplier*:	CRECIMIENTO INDUSTRIAL CO.,LTD		
Finish Product Manufacturer*:	Stella		
Samples Name/Description*:	PU FOAM		
Material Composition*:	Polyurethane		
Material Name	PU FOAM		
Material ID:	/		
Style No./Style Name:	/		
Color*:	(A)BLACK; (B)LIGHT BLUE		
Season*:	S20,F20		
Stage*:	Production		
End Use:	footwear		
Material Classification:	Plastic/Polymers		
Test Type:	New Material(Full Item Test)		
Sample Receiving Date:	Sep 09, 2019	Report Issuing Date:	Sep 09, 2019 ~ Sep 16, 2019



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SUMMARY			
Test Requested	Conclusion		Remarks
	Children	Adult	
Alkylphenols (AP)&Alkylphenol Ethoxylates (APEO)	Pass	Pass	
Cadmium(Cd)	Pass	Pass	
	Baby	Non-Baby	
Lead(Pb)	Pass	Pass	
Total Heavy Metal	Pass	Pass	
Organotins	Pass	Pass	
SCCPs	Pass	Pass	
Phthalates	Pass	Pass	
Polycyclic Aromatic Hydrocarbons	Pass	Pass	
Polyvinyl chloride (PVC)	Pass	Pass	

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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Sample Photo



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List of Materials/Components:

Sample No.	Color	Material/Component description
A	Black	PU FOAM
B	Light blue	PU FOAM



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Test Result

Alkylphenols (AP) & Alkylphenol Ethoxylates (APEO)

Test Method: Others : Dissolve in THF, followed by Solvent extraction and analyzed by GC-MS /LC-MS

		Result (mg/kg)
	CAS-No.	A+B
Nonylphenol (NP)	25154-52-3	n.d.
Octylphenol (OP)	27193-28-8	n.d.
Nonylphenol Ethoxylate (NPEO)	9016-45-9	n.d.
Octylphenol Ethoxylate (OPEO)	9002-93-1	n.d.
Sum of APs And APEOs	--	n.d.
Conclusion	--	PASS

Note: n.d. = not detected
 mg/kg = ppm
 * = Exceeds the limit
 # = Exceeds the relevant requirement of 2 / 3-composite mix
 Detection Limit = 100 mg/kg (each)

Client's Requirement:**Adult product:** 300 mg/kg (sum)**Children's product
(0 months-13 yrs):** 100 mg/kg (sum)**Short Chain Chlorinated Paraffin (SCCP)**

Test Method: Polymers: Dissolve in THF, followed by solvent extraction; Finally, use GC-MS for analysis

		Result (mg/kg)
	CAS-No.	A+B
Short Chain Chlorinated Paraffin (SCCP)	85535-84-8	n.d.
Conclusion	--	PASS

Note: n.d. = not detected
 mg/kg = ppm
 * = Exceeds the limit
 # = Exceeds the relevant requirement of 2 / 3-composite mix
 Detection Limit = 50 mg/kg

Client's Requirement: 1000 mg/kg

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Cadmium (Total)

Test Method: acid digestion- Analysis was conducted with Atomic Absorption Spectrometry (AAS)/(ICP-OES)

		Result (mg/kg)
	CAS-No.	A+B
Cadmium (Cd)	7440-43-9	n.d.
Conclusion	--	PASS

Note: n.d. = not detected
 mg/kg = ppm
 * = Exceeds the limit
 # = Exceeds the relevant requirement of 2 / 3-composite mix
 Detection limit = 10 mg/kg

Client's Requirement:

Surface coating: 20mg/kg
All textiles, leather and synthetic PU, Glass for Children: 75 mg/kg
Metal and Plastic, Glass for Adult: 100 mg/kg

Lead (Total)

Test Method: acid digestion- Analysis was conducted with Atomic Absorption Spectrometry (AAS)/(ICP-OES)

		Result (mg/kg)
	CAS-No.	A+B
Lead (Pb)	7439-92-1	n.d.
Conclusion	--	PASS

Note: n.d.=not detected
 mg/kg = ppm
 * = Exceeds the limit
 # = Exceeds the relevant requirement of 2 / 3-composite mix
 Detection limit = 10 mg/kg

Client's Requirement: 90 mg/kg



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Total Heavy Metal

Test Method: acid digestion- Analysis was conducted with Atomic Absorption Spectrometry (AAS)/(ICP-OES)

		Result (mg/kg)
	CAS-No.	A+B
Cadmium (Cd)	7440-43-9	n.d.
Lead (Pb)	7439-92-1	n.d.
Mercury (Hg)	7439-97-6	n.d.
Arsenic (As)	7440-38-2	n.d.
Antimony (Sb)	7440-36-0	n.d.
Chromium (Cr)	7440-47-3	n.d.
Cobalt (Co)	7440-48-4	n.d.
Copper (Cu)	7440-50-8	n.d.
Conclusion	--	PASS

Note: n.d. = not detected
mg/kg = ppm
Detection limit = 10 mg/kg



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Organotins

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

		Result (mg/kg)
	CAS-No.	A+B
Tributyltin (TBT)	56573-85-4	n.d.
Triphenyltin (TPhT)	668-34-8	n.d.
Dibutyltin (DBT)	1002-53-5	n.d.
Diocetyl tin (DOT)	15231-44-4	n.d.
Conclusion	--	PASS

Note: n.d. = not detected
mg/kg = ppm
* = Exceeds the limit
= Exceeds the relevant requirement of 2 / 3-composite mix
Detection limit: 0.2 mg/kg (for individual compound)

Client's Requirement: 1 mg/kg(each)

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Phthalates

Test Method: With reference to CPSC-CH-C1001-09.3. Analysis was performed by GC-MS.

	<u>CAS-No.</u>	<u>Result</u> <u>A+B</u>
Dibutyl Phthalate (DBP)	84-74-2	n.d.
Benzylbutyl Phthalate (BBP)	85-68-7	n.d.
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	n.d.
Diisononyl Phthalate (DINP)	28553-12-0/ 68515-48-0	n.d.
Diisodecyl Phthalate (DIDP)	26761-40-0/ 68515-49-1	n.d.
Di-n-octyl Phthalate (DNOP)	117-84-0	n.d.
Dimethyl phthalates (DMP)	131-11-3	n.d.
Diethyl phthalate (DEP)	84-66-2	n.d.
Diisobutyl Phthalate (DIBP)	84-69-5	n.d.
Di-n-hexyl Phthalate (DnHP)	84-75-3	n.d.
Total (DINP+ DNOP+ DIDP)	--	n.d.
Total (DMP+ DEP+ DIBP)	--	n.d.
Total (DBP+ BBP+ DEHP+ DIBP)	--	n.d.
Total (DBP+BBP+DEHP+ DINP+ DNOP+DIDP+ DMP+ DEP+ DIBP + DnHP)	--	n.d.
1,2-benzenedicarboxylic acid, di-C7-11 branched and linear alkyl esters (DHNUP)	68515-42-4	n.d.
1,2-benzenedicarboxylic acid, di- C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	n.d.
Bis(2-methoxyethyl) phthalate (DMEP/BMEP)	117-82-8	n.d.
Diisopentylphthalates (DIPP)	605-50-5	n.d.
N-pentyl-isopentyl phthalate (NPIPP)	776297-69-9	n.d.
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (DPP)	84777-06-0	n.d.
Diphenyl phthalate (DNPP)	131-18-0	n.d.
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear standard	68515-50-4	n.d.
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters	68515-51-5 68648-93-1	n.d.



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Dicyclohexyl Phthalate (DCHP)	84-61-7	n.d.
Di-iso-hexylphthalate (DIHxP)	71850-09-4	n.d.
Conclusion	--	PASS

Note: n.d. = not detected
 mg/kg = ppm, 0.1% = 1000 mg/kg
 * = Exceeds the limit
 # = Exceeds the relevant requirement of 2 / 3-composite mix
 Detection limit: 50 mg/kg (for individual compound)

Client's Requirement:

DEHP, DBP, BBP, DIBP:	<1000 mg/kg (Total)
DINP, DIDP, DNOP:	<1000 mg/kg (Total)
DMP, DEP, DIBP:	<1000 mg/kg (Total)
DBP, BBP, DEHP, DINP, DNOP, DIDP, DMP, DEP, DIBP, DnHP	<1000 mg/kg (Total), <500 mg/kg (Each)
Others	1000 mg/kg (Each)



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Polycyclic Aromatic Hydrocarbons

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

		Result (mg/kg)
	CAS-No.	A+B
Naphthalene (NAP)	91-20-3	0.4
Acenaphthylene (ANY)	208-96-8	n.d.
Acenaphthene (ANA)	83-32-9	n.d.
Fluorene (FLU)	86-73-7	n.d.
Phenanthrene (PHE)	85-01-8	0.2
Anthracene (ANT)	120-12-7	n.d.
Fluoranthene (FLT)	206-44-0	n.d.
Pyrene (PYR)	129-00-0	n.d.
Benzo(a)anthracene (BaA)	56-55-3	n.d.
Chrysene (CHR)	218-01-9	n.d.
Benzo(b)fluoranthene (BbF)	205-99-2	n.d.
Benzo(j)fluoranthene (BjP)	205-82-3	n.d.
Benzo(k)fluoranthene (BkF)	207-08-9	n.d.
Benzo(a)pyrene (BaP)	50-32-8	n.d.
Benzo(e)pyrene (BeP)	192-97-2	n.d.
Indeno(1,2,3-cd)pyrene (IPY)	193-39-5	n.d.
Dibenzo(a,h)anthracene (DBA)	53-70-3	n.d.
Benzo(g,h,i)perylene (BPE)	191-24-2	n.d.
Total 18 PAHs	--	0.6
Conclusion	--	PASS

Note: n.d. = not detected
mg/kg = ppm
* = Exceeds the limit
= Exceeds the relevant requirement of 2 / 3-composite mix
Detection Limit = 0.1 mg/kg (for individual compound)

Client's Requirement:

	Category A: Products w/ prolonged skin contact(>30 seconds) or frequent short-term contact	Category B Products w/ short-term skin contact(<30 seconds)
Naphthalene	2 mg/kg	10 mg/kg
Acenaphthylene	Sum < 10 mg/kg	Sum < 50 mg/kg
Acenaphthene		
Fluorene		
Phenanthrene		
Anthracene		



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Test Report

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Fluoranthene		
Pyrene		
Benzo[a]anthracene	0.5 mg/kg	1 mg/kg
Chrysene	0.5 mg/kg	1 mg/kg
Benzo[b]fluoranthene	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
Benzo[a]pyrene	0.5 mg/kg	1 mg/kg
Benzo[e]pyrene	0.5 mg/kg	1 mg/kg
Indeno[1,2,3-cd]pyrene	0.5 mg/kg	1 mg/kg
Dibenz[a,h]anthracene	0.5 mg/kg	1 mg/kg
Benzo[g,h,i]perylene	0.5 mg/kg	1 mg/kg
Sum 18 PAH	10 mg/kg	50 mg/kg

Polyvinyl chloride (PVC) Identification

Test Method: In-house method – Beilstein test

	<u>CAS-No.</u>	<u>Result</u> A, B
Beilstein Test	--	Negative
Conclusion	--	PASS

Note: Negative = Does not detect

Client's Requirement:
Burning test by Beilstein method **Negative**

The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

End of Report



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