

## Test Report

No. VNLS1810023738FW

Date: Nov 06, 2018

Page 1 of 12

### CRECIMIENTO VIET NAM., LTD

ROAD 4, DONG AN IDZ, BINH HOA, THUAN AN,  
BINH DUONG, VIET NAM

The following sample was submitted and identified on behalf of the client as:

#### Report on the submitted samples said to be:

Sample Description : FABRIC  
Division : Footwear Division  
Buyer's Name : Adidas  
Summary of Test Result : **PASS**  
Failure Test Items : ---  
Age Group : Infant (< 36 months), Adults  
Material Name / Code : TRICOT 36G EPM 5 / TC 36G EPM 5  
Color Name / Code : BLACK  
Material Component : POLYESTER  
Lot No./Purchase / Order No. : ---  
Supplier Name : CRECIMIENTO VIET NAM., LTD  
Supplier Contact Person : ---  
Country of Supplier : Vietnam  
Country of Destination : ---  
Sample Classification : Polyester textiles (400)  
Test Required Key Code No. : Key code 400 under Adidas A-01 Test Standard 2018  
Report Type : FT (Full test)  
Full test report No. : ---  
Additional information : ---  
Sample Received Date : Oct 26, 2018 PM. Confirmation date: Oct 31, 2018  
Sample Tested Date : Oct 31, 2018 – Nov 06, 2018  
SGS Job No. : VNLS1810023738FW

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**Summary of Test Result:** (Detail test results on next page)

Test Parameter	Test Method	Conclusion (Pass/Fail)
Extractable Heavy Metals	Others: Extraction in acidic perspiration solution DIN EN ISO 105-E04:2013. Analysis by ICP-MS - DIN EN ISO 11885: 2009 and DIN EN ISO 12846:2012	Pass
pH Value	DIN ISO 3071:2006	Pass
▪ Σ PCP, TeCP and TriCP	Extraction with KOH Analysis by GC-ECD / GC-MS	Pass
Azo-Amines	Textile: DIN EN ISO 14362-1:2017. Analysis was conducted by GC-MS/HPLC-DAD	Pass
Formaldehyde	Textile: Adults: DIN EN ISO 14184-1:2011. Infants: JISL 1041A. Analysis was performed by UV/VIS spectrophotometer.	Pass
Disperse Dyes and dyestuffs (Table A)	DIN 54231:2005. Analysis was conducted with HPLC-DAD-MSD.	Pass
Organotin Compounds	ISO/TS 16179:2012. Analysis was performed by GC-MS.	Pass
Σ Nonylphenol (NP), Octylphenol (OP), Nonylphenol ethoxylates (NPEO) and Octylphenol ethoxylates (OPEO)	NP, OP: Extraction with THF. Analysis by LC-MS. NPEO, OPEO: Textile: DIN EN ISO 18254-1:2016. Analysis by LC-MS	Pass
Nonylphenol (NP)	Extraction with THF. Analysis by LC-MS	Pass
Octylphenol (OP)	Extraction with THF, Analysis by LC-MS	Pass
PFOS / PFOA and its salts and esters	-	Not applicable
Dimethylfumarate (DMFu)	-	Not applicable

**Summary of Failed Test Result:** (Detail test results on next page)

Failed Test	Failed Test Component	Failed Result
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### Sample Photo



Signed for and on behalf of  
**SGS Vietnam LTD**

Rhodora Quinto  
Softlines Lab Manager

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**Component List / List of Materials**

Sample No.	Material No.	Component	Material
A1	1	Black polyester fabric	Textile

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**Test Results:**
**Extractable Heavy Metals (\*)**

 Test Method: Others: Extraction in acidic perspiration solution - DIN EN ISO 105-E04:2013.  
 Analysis by ICP-MS: DIN EN ISO 11885: 2009 and DIN EN ISO 12846:2012.

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</b>
Antimony (Sb)	7440-36-0	n.d.
Cadmium (Cd)	7440-43-9	n.d.
Chromium (Cr)	7440-47-3	n.d.
Lead (Pb)	7439-92-1	n.d.
Mercury (Hg)	7439-97-6	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

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

<b>Requirement:</b>	<b>Infants (mg/kg)</b>	<b>Adults (mg/kg)</b>	<b>Detection Limit (mg/kg)</b>
<b>Antimony</b>	<b>30</b>	<b>30</b>	<b>1.0</b>
<b>Cadmium</b>	<b>0.1</b>	<b>0.1</b>	<b>0.05</b>
<b>Chromium</b>	<b>1.0</b>	<b>2.0</b>	<b>0.5</b>
<b>Lead</b>	<b>0.2</b>	<b>1.0</b>	<b>0.1</b>
<b>Mercury</b>	<b>0.02</b>	<b>0.02</b>	<b>0.01</b>

**pH Value (Non-Leather) (\*)**

Test Method: DIN ISO 3071:2006 (KCl method)

		<b>Result</b>
	<b>CAS-No.</b>	<b>A1</b>
pH value	--	6.1
<b>Conclusion</b>	--	<b>PASS</b>

 Note: Extraction medium KCl solution  
 pH value of extraction medium 5.0 – 7.5  
 Temperature of the extraction solution 22 ± 2°C

**Requirement: 4.0 – 7.5**

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**$\Sigma$  PCP, TeCP and TriCP (\*)**

Test Method: Extraction with KOH. Analysis by GC-MS/GC-ECD

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</b>
Pentachlorophenol (PCP)	87-86-5	n.d.
Tetrachlorophenols (TeCP)	--	n.d.
Trichlorophenols (TriCP)	--	n.d.
Sum of PCP, TeCP and TriCP	--	n.d.
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d. = not detected  
 mg/kg = ppm  
 Detection Limit = 0.05 mg/kg (for individual compound)

**Requirement:**                      **Adults: 0.5 mg/kg (Sum)**  
    **Infants: 0.05 mg/kg (Sum)**

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**Azo-Amines (Direct Reduction) (\*)**

Test Method: Textile: DIN EN ISO 14362-1:2017. Analysis was conducted by GC-MS.

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</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-Toluylendiamine	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.
2,4 - Xylidine	95-68-1	n.d.
2,6 - Xylidine	87-62-7	n.d.
<b>Conclusion</b>	<b>--</b>	<b>PASS</b>

Note: n.d. = not detectable  
 mg/kg = ppm  
 Detection Limit = 5 mg/kg (for individual compound)

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

Remark: The DIN 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 mg/kg) by mentioned test method, test result for 4-aminoazobenzene (CAS no. 60-09-3) is considered as "not detected" (i.e. <5 mg/kg). Otherwise, the test method of DIN EN ISO 14362-3:2017 will be employed to verify the presence of 4-aminoazobenzene.

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**Azo-Amines (Colorant Extraction) (\*)**

Test Method: Textile: DIN EN ISO 14362-1:2017. Analysis was conducted by GC-MS.

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</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-Toluylendiamine	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.
2,4 - Xylidine	95-68-1	n.d.
2,6 - Xylidine	87-62-7	n.d.
<b>Conclusion</b>	<b>--</b>	<b>PASS</b>

Note: n.d. = not detectable  
 mg/kg = ppm  
 Detection Limit = 5 mg/kg (for individual compound)

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

Remark: The DIN 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 mg/kg) by mentioned test method, test result for 4-aminoazobenzene (CAS no. 60-09-3) is considered as "not detected" (i.e. <5 mg/kg). Otherwise, the test method of DIN EN ISO 14362-3:2017 will be employed to verify the presence of 4-aminoazobenzene.

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**Formaldehyde (Non-Leather) (\*)**

Test Method: Textile: Adults: DIN EN ISO 14184-1:2011. Analysis was performed by UV/VIS spectrophotometer.

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</b>
Formaldehyde	50-00-0	n.d
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d. = Not detected  
 mg/kg = ppm  
 Detection limit = 5 mg/kg

**Client's Requirement:**  
**Adults**

**75 mg/kg**

**Formaldehyde (Non-Leather)**

Test Method: Non-leather: Infants: JISL 1041A. Analysis was performed by UV/VIS spectrophotometer.

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</b>
Formaldehyde	50-00-0	n.d
<b>Conclusion</b>	--	<b>PASS</b>

Note: n.d. = not detected  
 mg/kg = ppm  
 Detection Limit = 13 mg/kg

**Client's Requirement:**

**Infants:**

**16 mg/kg**

**Children apparel (size ≤ 98-176):**

**20 mg/kg**

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**Disperse Dyes and Dyestuffs (Table A)**

Test Method: DIN 54231:2005. Analysis was conducted with HPLC-DAD-MSD.

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</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 35	12222-75-2	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 Yellow 1	119-15-3	n.d.
Disperse Yellow 3	2832-40-8	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 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 37/59/76	12223-33-5 / 13301-61-6 / 51811-42-8	n.d.
Disperse Orange 149	85136-74-9	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.
Acid Red 26	3761-53-3	n.d.
Basic Red 9	569-61-9	n.d.
Basic Violet 14	632-99-5	n.d.
Direct Black 38	1937-37-7	n.d.
Direct Blue 6	2602-46-2	n.d.
Direct Red 28	573-58-0	n.d.
Basic Blue 26	2580-56-5	n.d.
Basic Violet 3	548-62-9	n.d.
<b>Conclusion</b>	<b>--</b>	<b>PASS</b>

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

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

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**Organotin Compounds**

Test Method: ISO/TS 16179:2012. Analysis was performed by GC-MS.

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</b>
Tributyltin (TBT)	--	n.d.
Triphenyltin (TPhT)	--	n.d.
Dibutyltin (DBT)	--	n.d.
Diocetyl tin (DOT)	--	n.d.
Monobutyltin (MBT)	--	n.d.
Monooctyltin (MOT)	--	n.d.
Triocetyl tin (TOT)	--	n.d.
<b>Conclusion</b>	<b>--</b>	<b>PASS</b>

Note: n.d. = not detected  
 mg/kg = ppm  
 Detection Limit = 0.05 mg/kg (for individual compound)

**Requirement:**

<b>TBT</b>	<b>Not Detected</b>
<b>TPhT</b>	<b>0.5 mg/kg</b>
<b>DBT</b>	<b>1 mg/kg</b>
<b>DOT</b>	<b>1 mg/kg</b>
<b>MBT</b>	<b>1 mg/kg</b>
<b>MOT</b>	<b>1 mg/kg</b>
<b>TOT</b>	<b>1 mg/kg</b>

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**Σ Nonylphenol (NP), Octylphenol (OP), Nonylphenol ethoxylates (NPEO) and Octylphenol ethoxylates (OPEO) (\*)**

Test Method: NP, OP: Extraction with THF. Analysis was performed by LC-MS.  
 NPEO, OPEO: Textile: DIN EN ISO 18254-1:2016. Analysis was performed by LC-MS

		<b>Result (mg/kg)</b>
	<b>CAS-No.</b>	<b>A1</b>
Nonylphenol (NP)	--	n.d
Octylphenol (OP)	--	n.d
Nonylphenol Ethoxylate (NPEO)	--	n.d
Octylphenol Ethoxylate (OPEO)	--	n.d
Sum of Nonylphenol (NP), Octylphenol (OP), Nonylphenol ethoxylates (NPEO) and Octylphenol ethoxylates (OPEO)	--	n.d
<b>Conclusion</b>	<b>--</b>	<b>PASS</b>

Note: n.d. = not detected  
 mg/kg = ppm  
 Detection Limit = 3 mg/kg

**Requirement:**  
**10 mg/kg (NP)**  
**10 mg/kg (OP)**  
**100 mg/kg (sum of NP, OP, NPEO and OPEO)**

**PFOS & PFOA and its salts and esters**

Not Applicable

**Dimethylfumarate (DMFu)**

Not Applicable

Remark: Above tests except (\*) are accredited ISO 17025: 2005 by VILAS.

*Report results refer to submitted sample(s) only*  
 \*\*\* End of Report \*\*\*

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