

TEST REPORT SR 0548/22

Client: Entretex Ind. e Com. de Comp. para Calçados Ltda.
Address: 8077, BR 116 Highway, Novo Hamburgo - RS - Brazil.

1 - Sample description: One (01) sample of black coloured textile material.
Client identification: "VCX4 3P Carijó com Anti".

2 - Sample description: One (01) sample of white coloured textile material.
Client identification: "VCX4 3P Alv com Anti".



Application: 60678
Date of entry: 02/04/2022
Date of the test: 02/08 until 02/22/2022.

TESTS AND RESULTS

Determination of certain aromatic amines derived from azo colorants with and without extraction (BS EN ISO 14362-1/17)

Sample	Results (ppm)	Orientation (Manual Veja 2021)	Evaluation
1 + 2	< LQM	Maximum: 20 ppm	PASS

Amines analyzed: Azo dyes can release by cleavage of their azo group, one or more of the amines listed: 2,6-Dimethylaniline, 2-Methylaniline, 4-Chloroaniline, 2-Methoxy-5-Methylaniline, 2,4,5-Trimethylaniline, 4-Chloro-2-Methylaniline, 2,4-Diaminotoluene, 2,4-Diaminoanisole, 2-Naphthylamine, 2-Methyl-5-Nitroaniline, 4-Aminobiphenyl, 4-Aminoazobenzene, 4,4'-Oxydianiline, 4,4'-Diaminobiphenyl, 4,4'-Diaminodiphenylmethane, 4'-Amino-2,3'-Dimethylazobenzene, 4,4'-Methylene-bis(2-methylaniline), 3,3'-Dimethylbenzidine (o-Tolidine), 4,4'-Thiodianiline, 3,3'-Dichlorobenzidine, o-Dianisidine, 4,4'-Methylene bis(2-chloroaniline), o-Anisidine, 2,4-Dimethylaniline.

Arylamine Salts extraction (BS EN ISO 14362-1/17)

Sample	Results (ppm)	Orientation (Manual Veja 2021)	Evaluation
1 + 2	< LQM	Maximum: 20 ppm	PASS

Salts analyzed: 4-chloro-o-toluidinium chloride, 2-Naphthylammoniumacetate, 2,4,5-trimethylaniline hydrochloride, 4-methoxy-m-phenylene diam-monium sulphate; 2,4-diaminoanisole sulphate

Textile – Determination of formaldehyde (ISO 14184-1/11)

Sample	Results (ppm)	Orientation (Manual Veja 2021)	Evaluation
1 + 2	< LQM	All except packaging: max. 16 ppm	PASS

Note: The results presented in this document are valid only to the tested samples and may not be reproduced without the laboratory authorization. Authorization will only be given for the total reproduction of this document.

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TEST REPORT SR 0548/22

Determination of phthalate content (CPSC-CH-C 1001-09.3/2018)*

Sample	Results (%)	Orientation (Manual Veja 2021)	Evaluation
1 + 2	< LQM	Maximum: 500 ppm each Total: 1000 ppm	PASS

Determination of organotin compounds (ISO/TS 16179:2012)

Sample	Results (ppm)	Orientation (Manual Veja 2021)	Evaluation
1 + 2	< LQM	DBT, DOT, MBT, TCyHT, TMT: 1 ppm each TPhT: 0.5 ppm TBT: 0.1 ppm	PASS

Determination of metal content

Part 1: Determination of metals using microwave digestion (BS EN 16711-1:2015)

Analysis performed by ICP-OES

Sample	Results (ppm)	Orientation (Manual Veja 2021)	Evaluation
1 + 2	Cd = < LQM	Maximum: 40 ppm	PASS
	Pb = < LQM	Maximum: 90 ppm	PASS
	As = < LQM	Maximum: 10 ppm	PASS
	Hg = < LQM	Maximum: 0.5 ppm	PASS

pH Value (ISO 3071/20)

Sample	Results (ppm)	Orientation (Manual Veja 2021)	Evaluation
1 + 2	6.4	4.0 – 7.5	PASS

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Determination of metal content

Part 2: Determination of metals extracted by acidic artificial perspiration solution (BS EN 16711-2:2015)

Analysis performed by ICP-OES

Sample	Results (ppm)	Orientation (Manual Veja 2021)	Evaluation
1 + 2	Antimony (Sb) < LQM	Maximum 30 ppm	PASS
	Arsenic (As) < LQM	Maximum 0.1 ppm	
	Barium (Ba) < LQM	Maximum 1000 ppm	
	Cadmium (Cd) < LQM	Maximum 40 ppm	
	Chromium (Cr) < LQM	Maximum 2 ppm	
	Lead (Pb) < LQM	Maximum 0.2 ppm	
	Mercury (Hg) < LQM	Maximum 0.02 ppm	
	Selenium (Se) < LQM	Maximum 500 ppm	
	Cobalt (Co) < LQM	Maximum 1 ppm	
	Copper (Cu) < LQM	Maximum 25 ppm	
	Nickel (Ni) < LQM	Maximum 1 ppm	
	Tin (Sn) < LQM	-	

Method Quantification Limit – LQM

- Phthalates: 0.015 %

Dimethyl phthalate (DMP)	Di-n-hexyl phthalate (DNHP)	Methyl butyl phthalate (MBP)
Di-(2-ethyl-hexyl) phthalate (DEHP)	Butyl benzyl phthalate (BBP)	Di-n-pentyl phthalate (DPP)
Diisobutyl phthalate (DIBP)	Diisodecyl phthalate (DIDP)	Diisooctyl phthalate (DIOP)
Dibutyl phthalate (DBP)	Diethyl phthalate (DEP)	Bis(2-methoxyethyl) phthalate (BMEP)
Diisoheptyl phthalate (DIHP)	Diisononyl phthalate (DINP)	Dipropyl phthalate (DPrP)
Dicyclohexyl phthalate (DCHP)	Di-n-octyl phthalate (DNOP)	Diisopentyl phthalate (DIPP)
N-pentyl-isopentyl phthalate (PiPP)		
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear		
1,2-benzenedicarboxylic acid, dipentylester, branched and linear		
1,2-benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)		
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 (EC No. 201-559-5)		

- Organotin: 0.2 ppm

n-butyltin (MBT)	Mono-octyltin (MOT)	Trimethyltin (TMT)
tributyltin (TBT)	Di-n-octyltin (DOT)	Tricyclohexyltin (TCyHT)
Dibutyltin (DBT)	Triphenyltin (TPhT)	Tri-octyltin (TOT)
Tetrabutyltin (TeBT)	Tripropyltin (TPT)	

- Formaldehyde (Textile): 16 ppm

- Azo Dyes: 5 ppm per amine

- Arylamine salts: 5 ppm each

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TEST REPORT SR 0548/22

Method Quantification Limit – LQM		
-PAHs (ppm): 0.5 ppm		
Naphthalene	Benzo[e]pyrene	
Acenaphthylene	Benzo[j]fluoranthene	
Acenaphthene	Chrysene	
Fluorene	Benzo[b]fluoranthene	
Phenanthrene	Benzo[k]fluoranthene	
Anthracene	Benzo[a]pyrene	
Fluoranthene	Indeno[1,2,3-cd]pyrene	
Pyrene	Dibenzo[a,h]anthracene	
Benzo[a]anthracene	Benzo[g,h,i]perylene	
- Soluble Metals BS EN 16711-2:		
Antimony (Sb): 10.0 ppm	Cadmium (Cd): 0.1 ppm	Mercury (Hg): 0.02 ppm
Arsenic (As): 0.1 ppm	Chromium (Cr): 2.0 ppm	Selenium (Se): 10.0 ppm
Barium (Ba): 2.5 ppm	Lead (Pb): 0.2 ppm	Tin (Sn): 10.0 ppm
Cobalt (Co): 1 ppm	Copper (Cu): 2.5 ppm	Nickel (Ni): 1 ppm
- BS EN 16711-1 (Total):		
Lead (Pb): 10.0 ppm	Cadmium (Cd): 10.0 ppm	Mercury (Hg): 0.5 ppm
Arsenic (As): 10.0 ppm		

Considerations:

ppm (parts per million) = mg/kg

Sampling was carried by client.

With the exception of the outsourced tests, the remaining tests were performed in the laboratory permanent facilities.

At the customer's request, samples were grouped. In case of a positive result, the IBTeC recommends testing each sample separately.

With no further information for the time being, we now issue the present report.

This report integrates the sheet of signatures attached.

Novo Hamburgo, March 02nd, 2022.

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