

TEST REPORT

Job No./Report No TR331913

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CELTEKS TEKSTIL GIDA TURIZM BASKI SAN VE TIC LTD STI
6690 SOK NO 5 CUMHURİYET MAH KARSİYAKA İZMİR
TEL: 0232 361 67 55
FAX: .
To the attention of Ali Ata Celenay

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

Sample No.	Sample Description
A	Printed panel in multi coloured

Client's reference No. : TR 331913
Buyer : C&A
Order No. : Not Provided
Model/Style No. : Not Provided
Article No. : Not Provided
Age Grade : Not Provided
Manufacturer : CELTEKS TEKSTIL
Country of Origin : EUROPE
Country of Destination : Not Provided
Shipment Date : Not Provided
Sample Receiving Date : 2 February 2012
Test Performing Period : 2 February 2012 ~ 10 February 2012

Submitted Care Label Instructions :

Overall Conclusion : See Results

Test Results : Please refer to the next page(s).

Performed Test Summary: Selected test(s) as requested by client against Client's performance standard.

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Test Parameters	Result	
	1 + 2 + 3	4 + 5 + 6
Chemical tests		
Allergous Disperse Dyes	M	M
Azo Dyes (Textile)	M	M
Carcinogenic Dyes	M	M
Chlorinated Phenols	M	M
Detection of PVC	M	M
Extractable Heavy Metals	M	M
Free Formaldehyde	M	M
Organotin	M	M
Alkylphenols Ethoxylates	M	M
Phthalates	M	M

Test Parameters	Result
Physical tests	A
Dye Transfer in Storage	*
Garment Durability	*
Colour Fastness to Rubbing	M
Colour Fastness to Washing	M

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Remarks	:	M = Meets client's requirement
		F = Below client's requirement
		* = No specified requirement
Notes:	Conclusions on meet/fail are based on the test result from the actual sampling of the received sample(s).	
<p>The test results relate to the tested items only. Test reports without SGS seal and authorised signatures are invalid. Reported results do not include uncertainties. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS and DAkkS requirements. In this Test Report tests marked (1) are included in the UKAS Accreditation Scope, marked (2) are included in the DAkkS Accreditation Scope of this Laboratory. Opinions and interpretations expressed herein are outside the scope of UKAS or DAkkS Accreditation.</p> <p>Issued in Istanbul Signed for and on behalf of SGS Supervise Gözetme Etüd Kontrol Servisleri A.Ş.</p>		
Evrin Erdem Customer Services Team Leader		Ayşe Çimen Customer Services Manager
 		

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Component List / List of Materials for Chemical Test

Sample No.	Sample Description	Sample Colour	Material No.	Component	Material	Colour
A	Printed panel	Multi coloured	1	printed main	Textile	blue
A	Printed panel	Multi coloured	2	printed main	Textile	pink
A	Printed panel	Multi coloured	3	printed main	Textile	yellow
A	Printed panel	Multi coloured	4	printed main	Textile	Purple
A	Printed panel	Multi coloured	5	printed main	Textile	green-brown
A	Printed panel	Multi coloured	6	printed main	Textile	red

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Detail Test Result:

Allergenous Disperse Dyes²

Test Method: WITH REFERENCE TO DIN 54231:2005 - ANALYSIS BY LC-DAD/MSD

Disperse Dyes	CAS-Nr.	Result	
		1 + 2 + 3	4 + 5 + 6
C.I. Disperse Blue 1 (Structure No: C.I. 64 500)	2475-45-8	n.d.	n.d.
C.I. Disperse Blue 3 (Structure No: C.I. 61 505)	2475-46-9	n.d.	n.d.
C.I. Disperse Blue 7 (Structure No: C.I. 62 500)	3179-90-6	n.d.	n.d.
C.I. Disperse Blue 26 (Structure No: C.I. 63 305)	3860-63-7	n.d.	n.d.
C.I. Disperse Blue 35	56524-77-7	n.d.	n.d.
	56524-76-6		
C.I. Disperse Blue 102	12222-97-8	n.d.	n.d.
C.I. Disperse Blue 106	12223-01-7	n.d.	n.d.
C.I. Disperse Blue 124	61951-51-7	n.d.	n.d.
C.I. Disperse Brown 1	23355-64-8	n.d.	n.d.
C.I. Disperse Orange 1 (Structure No: C.I. 11 080)	2581-69-3	n.d.	n.d.
C.I. Disperse Orange 3 (Structure No: C.I. 11 005)	730-40-5	n.d.	n.d.
C.I. Disperse Orange 37/76/59	13301-61-6	n.d.	n.d.
C.I. Disperse Red 1 (Structure No: C.I. 11 110)	2872-52-8	n.d.	n.d.
C.I. Disperse Red 11 (Structure No: C.I. 62 015)	2872-48-2	n.d.	n.d.
C.I. Disperse Red 17 (Structure No: C.I. 11 210)	3179-89-3	n.d.	n.d.
C.I. Disperse Yellow 1 (Structure No: C.I. 10 345)	119-15-3	n.d.	n.d.
C.I. Disperse Yellow 3 (Structure No: C.I. 11 855)	2832-40-8	n.d.	n.d.
C.I. Disperse Yellow 9 (Structure No: C.I. 10 375)	6373-73-5	n.d.	n.d.
C.I. Disperse Yellow 39	--	n.d.	n.d.
C.I. Disperse Yellow 49	54824-37-2	n.d.	n.d.
C.I. Disperse Orange 149	85136-74-9	n.d.	n.d.
C.I. Disperse Yellow 23 (Structure No: C.I. 26 070)	6250-23-3	n.d.	n.d.
Conclusion		Pass	Pass

Note:

* = Exceeds the limit

= Exceeds the relevant requirement of 2 / 3-composite mix

Results reported on sample extract only

n.d. = not detected (< 1 mg/L)

1 mg/L in extract (for individual compound)

C&A Requirement's: **Disperse Blue 1 – Not Detected**
Disperse Yellow 3 – Not Detected
Others - 5 mg/L

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Azo Dyes (Textile)?

Test Method: ACCORDING TO BS EN 14362-1:2003 - ANALYSIS BY GC-MS/HPLC-DAD

Component	Cas No	1 + 2 + 3	4 + 5 + 6
4-Aminobiphenyl	92-67-1	n.d.	n.d.
Benzidine	92-87-5	n.d.	n.d.
4-Chlor-o-toluidine	95-69-2	n.d.	n.d.
2-Naphthylamine	91-59-8	n.d.	n.d.
o-Aminoazotoluene	97-56-3	n.d.	n.d.
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	n.d.	n.d.
4-Chloroaniline	106-47-8	n.d.	n.d.
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisoole	615-05-4	n.d.	n.d.
4,4'-Diaminodiphenylmethane	101-77-9	n.d.	n.d.
3,3'-Dichlorobenzidine	91-94-1	n.d.	n.d.
3,3'-Dimethoxybenzidine	119-90-4	n.d.	n.d.
3,3'-Dimethylbenzidine	119-93-7	n.d.	n.d.
4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	n.d.	n.d.
p-Cresidine	120-71-8	n.d.	n.d.
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	n.d.	n.d.
4,4'-Oxydianiline	101-80-4	n.d.	n.d.
4,4'-Thiodianiline	139-65-1	n.d.	n.d.
o-Toluidine	95-53-4	n.d.	n.d.
4-methyl-m-phenylenediamine / 2,4- Toluendiamine	95-80-7	n.d.	n.d.
2,4,5-Trimethylaniline	137-17-7	n.d.	n.d.
**4-aminoazobenzene	60-09-3	n.d.	n.d.
O-Anisidine	90-04-0	n.d.	n.d.
2,4-Xylidine	95-68-1	n.d.	n.d.
2,6-Xylidine	87-62-7	n.d.	n.d.
	Conclusion	Pass	Pass

Note(s):

n.d. = not detected

* = exceed the limit

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

Requirement by the client= 20 mg/kg

Remark: ** Test result for 4-aminoazobenzene (CAS no.: 60-09-3) is considered as "not detected" (i.e. <5mg/kg) since both aniline and/or 1,4-phenylenediamine is not found (i.e. <5mg/kg) by mentioned test method.
Max. limit specified by EU directive 2002/61/EC

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Carcinogenic Dyes

Test Method: With reference to E DIN 54231 : 2004-05 – Analysis was performed with HPLC-DAD-MS.

Carcinogenic Dyes	CAS-Nr.	Result	
		1+2+3	4+5+6
C.I. Acid Red 26 (Structure No: C.I. 16 150)	3761-53-3	n.d.	n.d.
C.I. Basic Red 9 (Structure No: C.I. 42 500)	569-61-9	n.d.	n.d.
C.I. Direct Black 38 (Structure No: C.I. 30 235)	1937-37-7	n.d.	n.d.
C.I. Direct Blue 6 (Structure No: C.I. 22 610)	2602-46-2	n.d.	n.d.
C.I. Direct Red 28 (Structure No: C.I. 22 120)	573-58-0	n.d.	n.d.
C.I. Basic Violet 14 (Structure No: C.I. 42 510)	632-99-5	n.d.	n.d.
C.I. Disperse Orange 11 (Structure No: C.I. 60 700)	82-28-0	n.d.	n.d.
C.I. Disperse Blue 1 (Structure No: C.I. 64 500)	2475-45-8	n.d.	n.d.
C.I. Disperse Yellow 3 (Structure No: C.I. 11 855)	2832-40-8	n.d.	n.d.
Conclusion		Pass	Pass

Note:

* = Exceeds the limit

= Exceeds the relevant requirement of 2 / 3-composite mix

Results reported on sample extract only

n.d. = not detected (< 1 mg/L)

Detection Limit = 1 mg/L

C & A's Requirement:

Not Detected

Detection of PVC

Test Method: BEILSTEIN TEST

Detection of PVC	1 + 2 + 3	4 + 5 + 6
		NEGATIVE
Conclusion	Pass	Pass

Note(s):

Negative means sample might not contain PVC

Positive means sample might contain PVC, Fourier Transform – Infrared Spectroscopy (FT-IR) testing is highly recommended

Requirement by the client= Negative

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PCP / TeCP

Test Method: Textiles and Leather – With reference to § 64 LFGB 82.02.8 – Analysis was performed with GC-ECD / GC-MS.

Printed Polyester – Modified § 64 LFGB 82.02.8 with KOH extraction – Analysis was performed with GC-ECD / GC-MS.

	<u>1+2+3</u>	<u>Result</u>	<u>4+5+6</u>
Pentachlorophenol (PCP)	n.d.		n.d.
Tetrachlorophenol (TeCP)	n.d.		n.d.
Conclusion	PASS		PASS

Note: n.d. = not detected
Detection Limit = 0.25 mg/kg
* = Exceeds the limit
= Exceeds the relevant requirement of 2 / 3-composite mix

**C & A's Requirement: PCP Content: 0.5 mg/kg
TeCP Content: 0.5 mg/kg**

Extractable Heavy Metals

Test Method:Extraction with acidic sweat solution according to DIN EN ISO 105-E04, analysis was performed with Inductively Coupled Argon Plasma – Mass Spectroscopy (ICP- MS).

	<u>1+2+3</u>	<u>Result</u>	<u>4+5+6</u>
Lead (Pb)	n.d.		n.d.
Conclusion	Pass		Pass

Note: * = Exceeds the limit
= Exceeds the relevant requirement of 2 / 3-composite mix
n.d. = not detected

C & A's Requirement:	Baby	With/without skin contact	Detection Limit
Lead	0.2 mg/kg	1.0 mg/kg	0.2 mg/kg

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Formaldehyde

Test Method: Textiles – JIS L1041: 2000 – Analysis was performed with UV/VIS Spectrometry
Leather – ISO/TS 17226-1 – Analysis was performed with HPLC.

	1+2+3	Result	4+5+6
Formaldehyde	n.d		n.d
Conclusion	Pass		Pass

Note: n.d. = not detected
Detection Limit = 16 mg/kg
C & A's Requirement:
16 mg/kg (Textiles – Babywear)
75 mg/kg (Textiles – Direct skin contact)
300 mg/kg (Textiles – Without direct skin contact)
50 mg/kg (Leather & Shoes – Children <36 months)
150 mg/kg (Leather & Shoes)

Organotin

Test Method: With reference to ISO 17353 – Analysis was performed with GC/MS.

	1+2+3	Result	4+5+6
Organotins			
Tributyltin (TBT)	n.d.		n.d.
Dioctyltin (DOT)	n.d.		n.d.
Dibutyltin (DBT)	n.d.		n.d.
Triphenyltin (TPhT)	n.d.		n.d.
Conclusion	Pass		Pass

Note: * = Exceeds the limit
= Exceeds the relevant requirement of 2 / 3-composite mix
n.d. = not detected
Detection Limit = Tributyltin (TBT): 0.1 mg/kg
Dioctyltin (DOT): 0.1 mg/kg
Dibutyltin (DBT): 0.1 mg/kg
Triphenyltin (TPhT): 0.1 mg/kg

C & A's Requirement:
Tributyltin (TBT): Baby: 0.5 mg/kg; Others: 1.0 mg/kg
Dioctyltin (DOT): Baby: 1.0 mg/kg; Others: 2.0 mg/kg
Dibutyltin (DBT): Baby: 1.0 mg/kg; Others: 2.0 mg/kg
Triphenyltin (TPhT): 0.5 mg/kg; Others: 1.0 mg/kg

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Alkylphenol Ethoxylates (APEO)

Test Method: In-house method – Analysis was performed with the use of HPLC-MS.

Alkylphenol Ethoxylates (APEOs)	<u>1 + 2 + 3</u>	<u>Result</u>	<u>4 + 5 + 6</u>
Nonylphenol Ethoxylates (NPEOs)	3,7 mg/kg		4,4 mg/kg
Octylphenol Ethoxylates (OPEOs)	N.D.		N.D.
Conclusion	PASS		PASS

Note: n.d. = not detected
* = Exceeds the limit
= Exceeds the relevant requirement of 2 / 3-composite mix
Detection Limit = 1 mg/kg (each individual compound) for Textile;
30 mg/kg (each individual compound) for Others
**C & A's Requirement: Nonylphenoethoxylates (NPEO): 100 mg/kg,
Octylphenoethoxylates (OPEO): 100 mg/kg
Total: 100 mg/kg**

Phthalates

Test Method: With reference to ASTM Method Designation D3421-75. Analysis was performed with Gas Chromatography – Mass Spectrometry (GC-MS)

Phthalates		<u>1+2+3</u>	<u>Result</u>	<u>4+5+6</u>
Dibutyl Phthalate (DBP)	84-74-2	n.d.		n.d.
Benzylbutyl Phthalate (BBP)	85-68-7	n.d.		n.d.
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	n.d.		n.d.
Diisononyl Phthalate (DINP)	28553-12-0	n.d.		n.d.
Di-n-octyl Phthalate (DNOP)	117-84-0	n.d.		n.d.
Diisodecyl Phthalate (DIDP)	26761-40-0	n.d.		n.d.
Diisobutyl Phthalate (DIBP)	84-69-5	n.d.		n.d.
Di(C7-C11 alkyl) Phthalate linear+branched (DHNUP)	68515-42-4	n.d.		n.d.
Di(C6-C8 alkyl) Phthalate branched (DIHP)	71888-89-6	n.d.		n.d.
Bi(2-methoxyethyl) Phthalate (BMEP)	117-82-8	n.d.		n.d.
Di-n-hexyl Phthalate (DHP)	84-75-3	n.d.		n.d.
Conclusion		Pass		Pass

Note: * = Exceeds the limit
= Exceeds the relevant requirement of 2 / 3-composite mix
n.d. = not detected
Detection Limit: DBP: 30 mg/kg; BBP: 30 mg/kg; DEHP: 30 mg/kg;
DINP: 100 mg/kg; DNOP: 30 mg/kg; DIDP: 100 mg/kg;
DIBP: 30mg/kg

C&A's Requirement: Total < 1000 mg/kg

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Garment Durability¹			
Test Method:		SGS IN-HOUSE METHOD CTSL-SOP-PY-042NF	
Test Conditions:		5A 40C Line Dry	
Sample ID&Colour	Colour Change	Cross Staining	Requirement by the Client
(A)Multi coloured			No Requirement
WHITE MAIN	4-5		
ALL PRINTS	4-5	4-5	

Colour Fastness to Rubbing¹				
Test Method:		ISO 105-X12:2001		
(a1)Multi coloured	Dry Staining	Original Wet Staining		Requirement by the Client
	4-5	4-5		Dry:4 Wet:2

Colour Fastness to Washing¹									
Test Method:		ISO 105-C06:2010							
Test Conditions:		A2S 40C							
(a1)Multi coloured	Colour Change	Cross Staining	Staining Onto Multifiber						Requirement by the Client
			Acetate	Cotton	Nylon	Polyester	Acrylic	Wool	
ALL COLOURS	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	C: 4-5 S: 4-5

Dye Transfer in Storage		
Test Method:		AATCC TEST METHOD 163:2007
Sample ID&Colour	Colour Change	Requirement by the Client
(A)Multi coloured All colour	4-5	No Requirement

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* * * End of Test Report * * *

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