

LABORATÓRIOS - V.N.FAMALICÃO



COMPANY

ARITEKS BOYACILIK TICARET VE SANAYI AS
HEKIMSUYU CAD Nº 36
KUCUKKOY ISTANBUL - TURKEY
34250- TURKEY

Request Nr.: 5983/2018

Date of Reception : 2018/06/01

Observations

Samples reference - Your reference

9698/2018 - ArShirt Static Pro (AM.a)

Tests required

Tests according EN 1149-5

Knitted ref. ArShirt Static Pro, Colour Blue, Comp: 99%Cotton 1%Carbon

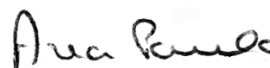
Weight: 200-210 g/m2

Process no. 009/2018

- The tests were performed between the following dates: 2018/06/01 and 2018/06/07.

V.N.FAMALICÃO, 14th June 2018

LABORATORY
COORDINATOR



(Eng^a Ana Paula Fonte)

NOTES:

- These results were obtained according to the proceedings referred in the Quality Manual of CITEVE and concern only the samples submitted to testing (above mentioned).
- Any part of this report cannot be reproduced without the prior permission of CITEVE.
- The tests signalled by * are not included in the scope of accreditation of this laboratory
- q.l - quantification limit d.l. - detection limit n.d. - not detected
- Samples are stored for 6 months after the date of entry, except for chemical products that are stored for a month.

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<u>Sample Ref.</u>	<u>Your ref.</u>	<u>Sample description</u>
9698 /2018	ArShirt Static Pro (AM.a)	1 Sample of knitted fabric

Test/Standard: DIMENSIONAL STABILITY TO DOMESTIC WASHING AND DRYING / ISO 6330:2012

Results

Wales/length/warp (mean value %) -	-3,7
Courses/width/weft (mean value %) -	+1,4

Test Conditions

Washing machine: Type A	
Washing programme: (ISO 6330:2012):	4N (40°C)
Total load (kg): 2	
Type of load used:	Type I (100% cotton)
Detergent used: Ref. 3 (ECE)	
Perborate de sodium + TAED	
Drying method:	Drip line dry
Number of washing and drying cycles: 5	
Number of specimens tested: 3	
Note: the signal + means extension and the signal - means shrinkage.	

Test/Standard: ELECTROSTATIC PROPERTIES: MEASUREMENT OF CHARGE DECAY / EN 1149-3:2004

Results

CHARGE DECAY HALF TIME (t50):	
Individual values (s):	< 0,01 < 0,01 < 0,01
Mean value (s):	< 0,01
SHIELDING FACTOR (S):	
Individual values:	0,71 0,74 0,67
Mean value:	0,71

Test Conditions

Method used: 2 (induction charging)	
Time measurement: 30 s	
Number of specimen tested: 3	
Pre-treatment:	
Washing programme (ISO 6330:2012):	4N (40°C)
Drying procedure:	Drip line dry
Detergent used: IEC+Sodium perborate+TAED	
Number of cycles: 5	

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Atmosphere for conditioning and testing:
(23+/-1)°C; (25+/-5)% relative humidity

Test/Standard: *pH OF AQUEOUS EXTRACT / ISO 3071:2005*

Results

Mean pH-value -	7,5
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Test Conditions

Type of solution used -	KCl
pH of the extracting solution -	5,6
Temperature of the extracting solution -	23 °C

Test/Standard: *AROMATIC AMINES FROM AZO COLORANTS (without extraction) / EN ISO 14362-1:2017*

Results

Results in mg/kg

4-Aminobiphenyl	< 5 (q.l.)
Benzidine	< 5 (q.l.)
4-Chloro-o-toluidine	< 5 (q.l.)
2-Naphthylamine	< 5 (q.l.)
^a o-Aminoazotoluene	< 5 (q.l.)
^a 5-Nitro-o-toluidine	< 5 (q.l.)
4-Chloroaniline	< 5 (q.l.)
2,4-Diaminoanisole	< 5 (q.l.)
4,4'-Diaminodiphenylmethane	< 5 (q.l.)
3,3'-Dichlorobenzidine	< 5 (q.l.)
3,3'-Dimethoxybenzidine	< 5 (q.l.)
3,3'-Dimethylbenzidine	< 5 (q.l.)
4,4'-Methylene-di-o-toluidine	< 5 (q.l.)
p-Cresidine	< 5 (q.l.)
4,4'-Methylene-bis-(2-chloraniline)	< 5 (q.l.)
4,4'-Oxydianiline	< 5 (q.l.)
4,4'-Thiodianiline	< 5 (q.l.)
o-Toluidine	< 5 (q.l.)
2,4-Diaminotoluene	< 5 (q.l.)
2,4,5-Trimethylaniline	< 5 (q.l.)
o-Anisidine	< 5 (q.l.)
2,4-Xylidine	< 5 (q.l.)
2,6-Xylidine	< 5 (q.l.)
^o 4-Aminoazobenzene	< 5 (q.l.)

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^aThese amines are reduced to o-toluidine and 2,4-Diaminotoluene.

^oThis amine is reduced to aniline and/or 1,4-phenylenediamine. If detected an additional test must be performed.

Test Conditions

Procedure: 10.2

Detection method:GC-MS

Quantification method:GC-MS or LC-MS

Confirmation method:LC-DAD or LC-MS

Detection limit: 1,5 mg/kg



Request 5983_Sample 9698