

LABORATÓRIOS - V.N.FAMALICÃO



COMPANY

ARITEKS BOYACILIK TICARET VE SANAYI AS
HEKIMSUYU CAD Nº 38
KUCUKKOY ISTANBUL - TURKEY
34250- TURKEY

Request Nr.: 9453/2017

Date of Reception : 2017/09/28

Observations

Samples reference - Your reference

15855/2017 - Ref. Aramid D1 210

Tests required

Tests according EN 1149-5

2/1 Twill 93% M- Aramid 5% P-Aramid 2% Carbon Ref. Aramid D1 210 - 210 g/m²

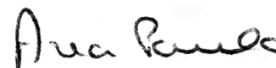
COMMENTS

See last page

- The tests were performed between the following dates: 2017/09/28 and 2017/10/11.

V.N.FAMALICÃO, 13th October 2017

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.

LABORATÓRIOS - V.N.FAMALICÃO

<u>Sample Ref.</u>	<u>Your ref.</u>	<u>Sample description</u>
15855 /2017	Ref. Aramid D1 210	1 Sample of 2/1 twill

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

Results

Wales/length/warp (mean value %) -	-1,0
Courses/width/weft (mean value %) -	-0,9

Test Conditions

Washing machine: Type A	
Washing programme (ISO 6330:2012):	6N (60°C)
Total load (kg): 2	
Type of load used:	Type III (100% polyester)
Detergent used: Ref.3 (ECE)	
Sodium perborate+TAED	
Drying method:	Tumble dry
Number of washing and drying cycles: 5	
Number of specimens tested: 2	For sample scarcity
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:	0,85 0,85 0,87
Mean value:	0,86

Test Conditions

Method used: 2 (induction charging)	
Time measurement: 30 s	
Number of specimen tested: 3	
Pre-treatment:	
Washing programme (ISO 6330:2012):	6N(60°C)
Drying procedure:	Tumble dry
Detergent used:IEC+Sodium perborate+TAED	
Number of cycles: 5	

LABORATÓRIOS - V.N.FAMALICÃO

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

Test/Standard: *AROMATIC AMINES DERIVED FROM AZOCOLORANTS / EN 14362-1:2012*

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.)

^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.

Quantification method: GC-MS

All positive result is confirmed by an additional method.

Test Conditions

LABORATÓRIOS - V.N.FAMALICÃO

Procedure: 9.2

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

Results

Mean pH-value -	6,2
-----------------	-----

Test Conditions

Type of solution used -	KCl
pH of the extracting solution -	5,8
Temperature of the extracting solution -	23 °C

COMMENTS

The sample our ref. 15855/2017 is according EN 1149-5:2008 in electrostatic properties: measurement of charge decay (EN 1149-3:2004) and is according EN ISO 13688:2013 in dimensional stability to domestic washing and drying (after 5 cycles of 6N (60°C) Tumble dry), aromatic amines derived from azocolorants and pH of aqueous extract.



request 9453-2017 sample 15855-2017