

TEST REPORT

2022EP6256

DATE OF RECEPTION

Date Format: dd/MM/yyyy 25/02/2022

DATE OF TESTS

Starting : 01/03/2022

Ending: 10/03/2022

APPLICANT

XM Textiles Europe UAB

Dariaus ir Gireno st. 42A Office 509

LT-02189 Vilnius

Att CERTIFICATION TEAM

REFERENCE OF SAMPLES

Reference by AITEX	Reference provided by the customer	Sample description
2022EP6256-S01	Fabric ref. UNITEC-200	Fabric

TESTS CARRIED OUT

- PRE-TREATMENT FOR INDUSTRIAL WASHING AND DRYING PROCEDURES FOR TEXTILE TESTING
- DETERMINATION OF CANCEROGENIC ARYLAMINES
- DETERMINATION THE pH VALUE OF AQUEOUS EXTRACT
- DETERMINATION OF BREAKING STRENGTH AND ELONGATION
- DETERMINATION OF TEAR RESISTANCE
- DETERMINATION OF DIMENSIONAL CHANGE IN WASHING AND DRYING
- FORMALDEHYDE

Tests marked with * are not included within the scope of the accreditation.

**DESCRIPTION OF SAMPLES**

Reference by AITEX: 2022EP6256-S01

Reference provided by the customer:

Fabric ref. UNITEC-200

Sample description:

Fabric ref. UNITEC-200

Composition and percentage 65% Polyester, 35% Cotton, , Twill 3/1

Weight 200gsm

Color White

Others (if any) XMT-21-144-ZHJ

Reference by AITEX	Reference provided by the customer
2022EP6256-S01.1	Fabric ref. UNITEC-200 AFTER WASH

The client has provided AITEX all the technical information about the articles to certify. All this information is enclosed in the Application Form



RESULTS

PRE-TREATMENT FOR INDUSTRIAL WASHING AND DRYING PROCEDURES FOR TEXTILE TESTING

Standard

EN ISO 15797:2018

Washing procedure

Table 4, procedure 1

Washing cycles

1

Washing temperature

85°C

Driying procedure

A (tumble dryer) - Industrial dryer 13010I12

Driying temperature

70°C

Reference

2022EP6256-S01

Test date**Start date**

03/03/2022

End date

04/03/2022

Dry mass of the samples (Kg)	Counterweight mass (Kg)	Counterweight type	Equipment
0.35	12.1	COTTON / POLYESTER	LAVADORA INDUSTRIAL 4 13535I05



RESULTS

DETERMINATION OF CANCEROGENIC ARYLAMINES

Standard

EN 14362-1:2017

Detection System according to

Gas Chromatograph 7890A

Testing Method

GC/MSD

Uncertainty

± 9 mg/Kg

Reference	Result (mg/Kg)
2022EP6256-S01	< 30

¹ Arylamines tested

Substance		
4-Aminobiphenyl	3,3'-Dimethylbenzidine	2,4-Diaminoanisole
Benzidine	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	o-Anisidine
4-Chlor-o-toluidine	p-Cresidine	3,3'-Dichlorobenzidine
2-Naphthylamine	4,4'-Methylene-bis-2-chloraniline	2,4,5-Trimethylaniline
o-Aminoazotoluene	4,4'-Oxydianiline	4,4'-Diaminodiphenylmethane
2-Amino-4-nitrotoluene	4,4'-Thiodianiline	2,4-Toluylendiamine
p-Chloraniline	o-Toluidine	
3,3'-Dimethoxybenzidine	4-Aminoazobenzene	



RESULTS

DETERMINATION THE pH VALUE OF AQUEOUS EXTRACT

Standard

EN ISO 3071:2020

Determination date

03/03/2022

Extractor solution

KCl

pH Extractor solution

5.6

Temperature

(21)°C

Reference	pH	Uncertainty
2022EP6256-S01	4.20	±5%



RESULTS

DETERMINATION OF BREAKING STRENGTH AND ELONGATION

Standard

EN ISO 13934-1:2013

Equipment

INSTRON Dynamometer

Conditioned date
Start date 7/3/2022 **End date** 10/3/2022

Test date
Start date 07/03/2022 **End date** 10/03/2022

Gauge length
Warp:200 mm

Weft:200 mm

Pretension
Warp:5.0 N

Weft:5.0 N

Gauge speed
Warp:100 mm/min

Weft :100 mm/min

Atmosphere for conditioning
Temperature $(20 \pm 2) ^\circ\text{C}$ **Relative Humidity** $(65 \pm 4) \%$
Number of test specimens per material to be tested
Tested 5 **Rejected** 0

State of the specimens

Conditioned

Reference

2022EP6256-S01.1

Direction	Maximum force (N)	Medium strength	C.V.	Elongation to the maximum load(%)	Average elongation	C.V.
Warp	1600	1600	1.5	18.5	18	3.2
	1700			18.5		
	1600			18		
	1600			18		
	1700			17		
Weft	700	710	2.9	16	16.5	1.3
	730			16.5		
	700			16.5		
	710			16.5		
	740			16.5		

Uncertainty
 $\pm 5\%$ assay value of the measured



RESULTS

DETERMINATION OF TEAR RESISTANCE

Standard

EN ISO 13937-2:2000

Equipment

INSTRON Dynamometer

Test date

Start date	07/03/2022	End date	10/03/2022
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Conditioned date

Start date	7/3/2022	End date	10/3/2022
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Atmosphere for conditioning

Temperature	(20 ± 2) °C	Relative Humidity	(65 ± 4) %
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Number of test specimens per material to be tested

Tested	5	Rejected	0
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Reference

2022EP6256-S01.1

Tear	Specimen	Average load	Classification value (N)	C.V.	
Lengthwise	32.5	33	25.9	2.8	
	32.5				
	32.3				
	33.5				
	34.4				
Crosswise	27.4	27		25.9	2.2
	26.4				
	26.9				
	26.5				
	25.9				

Uncertainty

±3.9% assay value of the measured



RESULTS

DETERMINATION OF DIMENSIONAL CHANGE IN WASHING AND DRYING

Standard

EN ISO 5077:2008

Preparation, marking and measuring of fabric specimens according to EN ISO 3759:2011**Start date**

10/3/2022

End date

17/03/2022

Equipment

Washing machine (13535I05)

Washing cycles

1

Washing temperature

85°C

Drying procedure

A (tumble dryer) - Industrial dryer 13010I12

Drying temperature

70°C

Uncertainty

± 0.4 %

Reference

2022EP6256-S01.1

Specimen	Direction	Dimensional change (%)
1	LENGHTWISE	-3
	CROSSWISE	-1

Note

Positive dimensional change indicates lengthening. Negative dimensional change indicates shrinkage



RESULTS

FORMALDEHYDE

Standard

EN ISO 14184-1:2011

Test date**Start date**

04/03/2022

End date

04/03/2022

Application range of the calibration straight line

15-600 mg/Kg

Reference	Formaldehyde (mg/Kg)	Uncertainty
2022EP6256-S01	5	± 11%



Lucia Martinez
Head of PPE and Ballistics department

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