



TEST CERTIFICATE

Client:	Ariteks Boyacilik Ticaret ve Sanayi As Hekimsuyu Cad No: 36 Kucukkoy 34250 Istanbul/Turkey
Entry No:	97817-01 (Amended)
Date received:	10/04/2018 and 22/05/2018
Client's Description:	Woven fabric : 1-) ArGiyim 245-5086, Composition: 80% polyester 20% Cotton Weight: 220-250 gr/m2, Colour: hv yellow
Tests Required:	BS EN ISO 20471: 2013 Clause 5.1.1 Colour performance requirements of background material Clause 5.2 Colour after xenon test of background materials Clause 5.3.1 Colour fastness to rubbing ^F Clause 5.3.2 Colour fastness to perspiration Clause 5.3.3 Colour fastness to washing Clause 5.3.3 Colour fastness to drycleaning Clause 5.3.3 Colour fastness to hypochlorite bleaching Clause 5.3.3 Colour fastness to hot pressing ^N Clause 5.4 Dimensional change Clause 5.5.1 Tensile Strength Clause 7.5.1 Colour after ageing of background materials
Pre-treatment:	Tests in clauses 5.4 and 7.5.1 were made after five washing cycles in accordance with ISO 6330: 2012 Procedure 4N at 40°C Drying Procedure B: Drip line. The drip line drying was carried out after the completion of each wash.
Conditioning:	In accordance with BS EN ISO 139: 2005 for a minimum of 24 hours at 65+/-4%, Relative Humidity, 20+/-2°C
Date Tests Completed:	21/05/2018

Test results in clauses 5.3.1 and 5.3.2 were taken from the sample submitted on 22/05/2018, all over test results were made on the sample submitted on 10/04/2018

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This is hereby certified to be a correct return of the tests made of the items referred to herein

Natalie Teal
Technologist
Date of original 29/06/2018
Date of amended 29/06/2018

- ❖ Unless instructed otherwise by the client sample remnants will be disposed of after 28 days.
 - ❖ Tests marked ^N in this certificate are not included in the UKAS Accreditation Schedule for this Laboratory.
 - ❖ Tests marked ^F in this certificate are performed under the Laboratory's Flexible Scope of Accreditation.
 - ❖ Tests marked ^S in this certificate have been subcontracted to another ISO17025 Accredited Laboratory.
 - ❖ Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
 - ❖ Uncertainty budgets for test methods contained within this report are available on request.
- This Certificate relates only to the sample received and, unless that sample has been drawn by the staff of this laboratory, or its agent, and endorsed accordingly, any application of the result to a bulk quantity or other material is entirely the responsibility of the client.



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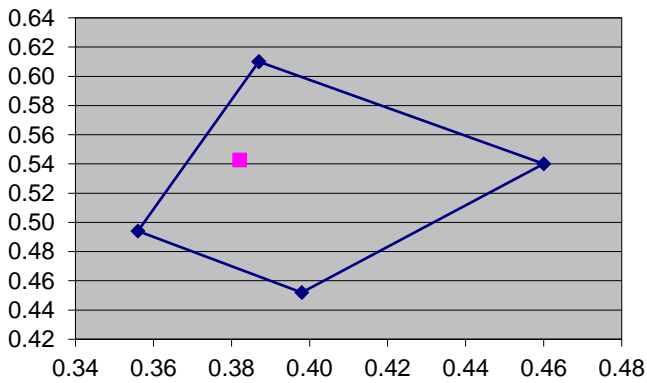


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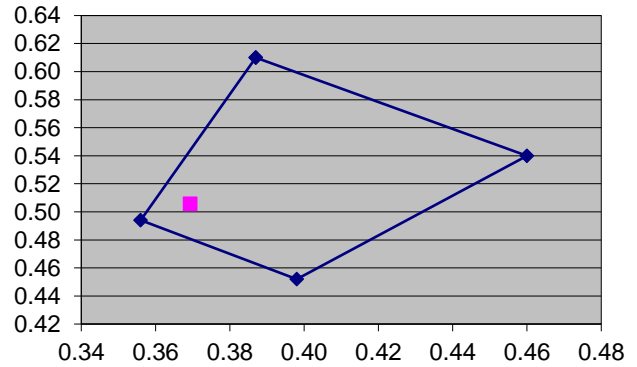
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BS EN ISO 20471: 2013 Clauses 5.1.1 and 5.2	Coordinates	Minimum Luminance factor β min	Pass/Fail
Fluorescent Yellow	x y 0,387 0,610 0,356 0,494 0,398 0,452 0,460 0,540	0.70	
Clause 5.1.1 As received	x = 0.3821 y = 0.5426	Luminance factor = 0.98	Coordinates PASS Luminance PASS
Clause 5.2 After xenon	x = 0.3693 y = 0.5058	Luminance factor = 0.91	Coordinates PASS Luminance PASS

As Received



After Xenon



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Colour Fastness to Dry Rubbing - BS EN ISO 20471 Clause 5.3.1 (ISO 105: X12: 2002)^F

	<u>Result</u>	<u>Specification</u>
Length Way	4-5	4
Width Way	5	4

Comments

This fabric meets the requirements of BS EN ISO 20471:2013 for fastness to rubbing.

Colour Fastness to Perspiration - BS EN ISO 20471 Clause 5.3.2 (ISO 105 E04: 2013)

	<u>Result</u>		<u>Specification</u>
	Acid	Alkali	
Staining of Multifibre			
Acetate	4-5	4-5	4
Cotton	4-5	4-5	4
Nylon	4	4	4
Polyester	4-5	5	4
Acrylic	5	4-5	4
Wool	4-5	4	4
Change in Colour	5	5	4

Comments

This fabric meets the requirements of BS EN ISO 20471: 2013 for fastness to perspiration.

Colour Fastness to Washing – BS EN ISO 20471 Clause 5.3.3 ISO 105: C06: 2010
Procedure A2S (40°C)

	<u>Result</u>	<u>Specification</u>
Staining of Multifibre		
Acetate	3-4	4
Cotton	4	4
Nylon	3	4
Polyester	4	4
Acrylic	4-5	4
Wool	4	4
Change in Colour	5	4-5

Comments

This fabric meets the requirements of BS EN ISO 20471: 2013 for fastness to washing except when in contact with acetate and nylon.

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Colour Fastness to Dry Cleaning – BS EN ISO 20471 Clause 5.3.3 ISO 105: D01: 2010

	<u>Result</u>	<u>Specification</u>
Staining of Multifibre		
Acetate	5	4
Cotton	4-5	4
Nylon	5	4
Polyester	4-5	4
Acrylic	4	4
Wool	4-5	4
Change in Colour	4-5	4

Comments

This fabric meets the requirements of BS EN ISO 20471: 2013 for fastness to drycleaning.

Colour Fastness to Hypochlorite bleaching – BS EN ISO 20471 Clause 5.3.3 (ISO 105-N01: 1993)

<u>Result</u>	<u>Specification</u>
5	4

Comments

This fabric meets the requirements of BS EN ISO 20471: 2013 for fastness to Bleaching.

Colour Fastness to Hot Pressing– BS EN ISO 20471 Clause 5.3.3 (ISO 105-X11: 1994)^N (150°C Dry/Dry)

	<u>Result</u>		<u>Specification</u>
	After Test	After 4 Hours	
Staining of cotton	4	N/A	4
Colour Change	4-5	4-5	4-5

Comments

This fabric meets the requirements of BS EN ISO 20471: 2013 for fastness to hot pressing.

Dimensional Stability – BS EN ISO 20471 Clause 5.4, ISO 13688: 2012 (ISO 5077: 2008)

	<u>Result</u>	<u>Specification</u>
Length	-0.5%	± 5% (knitted), ± 3% (woven)
Width	0%	± 5% (knitted), ± 3% (woven)

Comments

This fabric meets the requirements of BS EN ISO 20471: 2013 for dimensional change.

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Tensile Strength – BS EN ISO 20471 Clause 5.5.1, (ISO 13934-1)

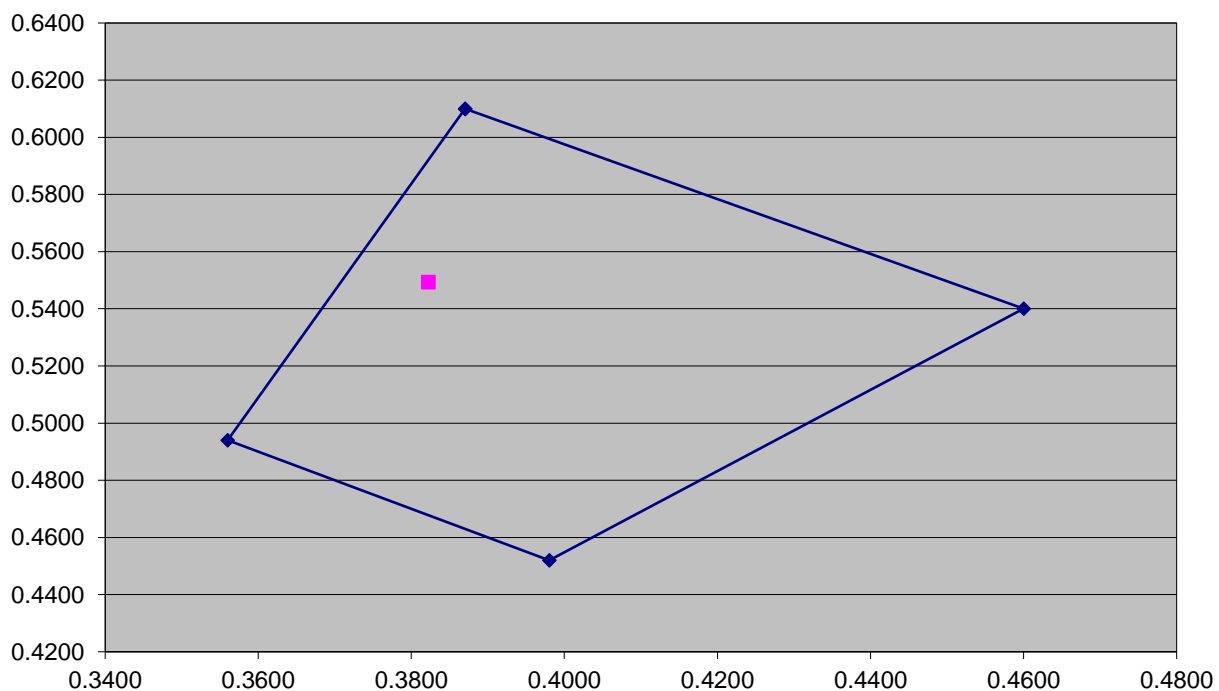
	<u>Result</u>	<u>Specification</u>
Warp/Length	2300N	100 N
Weft/Width	480N	100 N

Comments

This fabric meets the requirements of BS EN ISO 20471: 2013 for Tensile Strength.

BS EN ISO 20471:2013 Clause 7.5.1	Coordinates	Minimum Luminance factor β min	Pass/Fail										
Fluorescent Yellow	<table border="1"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr> <td>0,387</td> <td>0,610</td> </tr> <tr> <td>0,356</td> <td>0,494</td> </tr> <tr> <td>0,398</td> <td>0,452</td> </tr> <tr> <td>0,460</td> <td>0,540</td> </tr> </tbody> </table>	x	y	0,387	0,610	0,356	0,494	0,398	0,452	0,460	0,540	0.70	
x	y												
0,387	0,610												
0,356	0,494												
0,398	0,452												
0,460	0,540												
Clause 7.5.1 After ageing	x = 0.3822 y = 0.5494	Luminance factor = 0.99	Coordinates PASS Luminance PASS										

After Ageing



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