EVALUATION REPORT CONFORMITY REL.CC. Nº 104/2019.Corr1

COMPANY: Ariteks Boyacilik Ticaret Ve Sanayi AS

PRODUCT DESCRIPTION: Plain weave ref. ArWoWear T0 Flame+Arc Pro-5345, Composition 99% Cotton 1% Carbon, Colour white, Weight 160 g/m²

CERTIFICATION SCOPE: EN ISO 11612:2015 and EN ISO 14116:2015

TEST REPORTS: 8698/2019-1 and 9407/2019-1 CITEVE Technological Centre for the Textile and Clothing Industries of Portugal

EVALUATION CONFORMITY:

SECTION	TEST / STANDARD	MINIMUN REQUIREMENT	RESULT and/or TEST REPORT Nº	CONFORMITY
EN ISO 11612:2015: 4.1 EN ISO 14116:2015: 4.3 EN ISO 13688: 2013:4.2.c)	pH of Aqueous Extract/ ISO 3071:2005	> 3,5 to < 9,5	Report 9407/2019-1: **7,1**	COMPLY
EN ISO 11612:2015: 4.1 EN ISO 14116:2015: 4.3 EN ISO 13688:2013: 4.2.d)	Aromatic Amines from Azo Colorants/ EN ISO 14362-1:2017	not detectable	Report 9407/2019-1: **not detectable**	COMPLY
EN ISO 11612:2015: 6.2.1	Heat resistance (**180ºC) after pre-treatment** / ISO 17493:2016 and ISO 6330:2012 (**5 cycles 3N (30ºC) Tumble dry**)	shrinkage ≤ ±5% Not ignite or melt.	Report 9407/2019-1: **warp: -0,3% ±0,33%** **weft: -0,2% ±0,28%** **No ignite and no melt.**	COMPLY
EN ISO 11612:2015: 6.3.2	Flame spread before and after pre-treatment/ ISO 15025:2016 and ISO 6330:2012 (**5 cycles 3N (30ºC) Tumble dry**)	Flame spread: No specimen shall permit any part of the lowest boundary of any flame to reach the upper or either vertical edge. Flaming debris: No specimen shall give flaming or molten debris. Hole formation: No specimen shall give hole formation of 5 mm or greater in any direction, except for an interlining that is used for specific protection other than flame protection. Afterglow: Afterglow time shall be ≤ 2 s. A glowing inside the charred area is defined in ISO 15025 as afterglow without combustion and, for the purpose of this clause, shall not be regarded as afterglow. Afterflame: Afterflame time shall be ≤2 s.	Report 9407/2019-1: **All specimens:** **didn't reach either upper and vertical edge;** **didn't give flame and molten debris ;** **didn´t give hole;** **gave afterglow time: 0 s;** **gave afterflame time: 0 s.**	**CODE LETTER A1**

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EN ISO 11612:2015: 6.4 EN ISO 14116:2015: 6.3 EN ISO 13688:2013: 5.3	Dimensional stability to domestic washing and drying/ EN ISO 5077:2008 and ISO 6330:2012 (**after 5 cycles 3N (30ºC) Flat dry**) and **after 5 cycles 3N (30ºC) Tumble dry**)	≤ ±3% (woven material)	Report 8698/2019-1: (after 5 cycles 3N (30ºC) Flat dry) **warp -7,2% ±048%** **weft -3,6% ±047%**	*NOT COMPLY*
			Report 9407/2019-1: (after 5 cycles 3N (30ºC) Tumble dry) **warp -2,8% ±048%** **weft -1,7% ±047%**	COMPLY
EN ISO 11612:2015: 6.5.1.1	Tensile strength after pre-treatment/ ISO 13934-1:2013 and ISO 6330:2012 (**after 5 cycles 3N (30ºC) Tumble dry**)	≥ 300 N	Report 9407/2019-1: **warp: 700 N ± 82 N** **weft: 480N ± 69 N**	COMPLY
EN ISO 11612:2015: 6.5.2.1	Tear strength after pre-treatment/ EN ISO 13937-2: 2000 and ISO 6330:2012 (**after 5 cycles 3N (30ºC) Tumble dry**)	≥ 10 N	Report 9407/2019-1: **warp: 12 N ± 1,6 N** **weft: 10 N ± 1,5 N**	*NOT COMPLY*
EN ISO 11612:2015: 7.2	Flame exposure after pre-treatment/ ISO 9151:2016 and ISO 6330:2012 (**after 5 cycles 3N (30ºC) Tumble dry**)	Performance level: convective heat (code letter B) B1: 4,0s ≤ HTI 24 < 10,0s B2: 10,0s ≤ HTI 24 < 20,0s B3: 20,0s ≤ HTI 24	Report 9407/2019-1: **HTI 24 = 3,7s ± 0,43s**	*NOT COMPLY*
EN ISO 11612:2015: 7.3	Radiant heat after pre-treatment / ISO 6942:2002 (**Method B – 20kW/m²**) and ISO 6330:2012 (**after 5 cycles 3N (30ºC) Tumble dry**)	Performance level: radiant heat (code letter C) C1: 7,0 s ≤ RHTI 24 < 20,0s C2: 20,0s ≤ RHTI 24 < 50,0s C3: 50,0s ≤ RHTI 24 < 95,0s C4: 95,0s ≤ RHTI 24	Report 9407/2019-1: **RHTI 24 = 12,7s ± 1,6s**	**CODE LETTER C1**
EN ISO 11612:2015: 7.4	Molten aluminium splash/ ISO 9185	Performance level: molten aluminium splash (code letter D) D1: 100g ≤ Al molten <200g D2: 200g ≤ Al molten <350g D3: 350g ≤ Al molten	-----	***NOT REQUIRED***
EN ISO 11612:2015: 7.5	Molten iron splashes / ISO 9185	Performance level: molten iron splash (code letter E) E1: 60g ≤ Fe molten <120g E2: 120g ≤ Fe molten <200g E3: 200g ≤ Fe molten	-----	***NOT REQUIRED***
EN ISO 11612:2015: 7.6	Contact heat/ ISO 12127	Performance level: contact heat (code letter F) F1: 5,0s ≤ threshold time <10,0s F2: 10,0s ≤ threshold time <15,0s F3: 15,0s ≤ threshold time	-----	***NOT REQUIRED***

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<table>
<tr>
<td>EN ISO 14116:2015: 6.1.1 and 6.1.2</td>
<td>Limited flame spread (Procedure A) before and after 5 cycles 3N (30ºC) Tumble dry)/ ISO 15025:2016 and ISO 6330:2012</td>
<td>
<table>
<tr><td>Flame spread</td><td>No specimen shall permit any part of the lowest boundary of any flame or the boundary of any hole to reach the upper or either vertical edge.</td><td rowspan="5">INDEX 1</td><td rowspan="6">INDEX 2</td><td rowspan="7">INDEX 3</td></tr>
<tr><td>Flaming debris</td><td>No specimen shall give flaming or molten debris.</td></tr>
<tr><td>Afterglow</td><td>Afterglow time shall be ≤2 s.
A glowing inside the charred area is defined in ISO 15025 as afterglow without combustion and, for the purpose of this clause, shall not be regarded as afterglow.</td></tr>
<tr><td>Hole formation</td><td>No specimen shall give hole formation of 5 mm or greater in any direction, except for an interlining that is used for specific protection other than flame protection.</td></tr>
<tr><td>Afterflame</td><td>Afterflame time shall be ≤2 s.</td></tr>
</table>
</td>
<td>All specimens:
Any didn’t reach either upper and vertical edge;
didn't give flame and molten debris ;
didn´t give hole formation;
gave afterglow time: 0 s;
gave afterflame time: 0 s.</td>
<td>INDEX 3</td>
</tr>
<tr>
<td>EN ISO 14116:2015: 6.2.1</td>
<td>Tensile strength after pre-treatment/ ISO 13934-1:2013 and ISO 6330:2012 (after 5 cycles 3N (30ºC) Tumble dry)</td>
<td>≥ 150 N</td>
<td>Report 9407/2019-1:
warp: 700 N ± 82 N
weft: 480N ± 69 N</td>
<td>COMPLY</td>
</tr>
<tr>
<td>EN ISO 14116: 6.2.2</td>
<td>Tear strength after pre-treatment/ EN ISO 13937-2: 2000 and ISO 6330:2012 (after 5 cycles 3N (30ºC) Tumble dry)</td>
<td>≥ 7,5 N</td>
<td>Report 9407/2019-1:
warp: 12 N ± 1,6 N
weft: 10 N ± 1,5 N</td>
<td>COMPLY</td>
</tr>
</table>

NOTE: All tests required (with exception 4.1 and 4.3) by EN ISO 11612:2015 and EN ISO 14116:2015 respectivally, were carried out taking into account the customer care symbols of washing and drying for the material (5 cycles 3N (30ºC) Tumble dry).

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CONCLUSIONS:

Based on information above we conclude that:

- this product not comply with the requirement of dimensional stability to domestic washing and drying after 5 cycles 3N (30ºC) Flat dry, tear strength and flame exposure (convective heat) of the standard EN ISO 11612:2015;
- this product complies with all requirements of the standard EN ISO 14116:2015.

DATE: 20/09/2019

CERTIFICATION TECHNICIAN

REVIEW, DECISION AND ISSUE:

After revision of this report and in accordance with conclusions we aprove the issue of Certificate of Conformity in accordance to the standard EN ISO 14116:2015 for this product.

DATE: 23/09/2019

CERTIFICATION MANAGER

Clara Rodrigues

This document replaces the Evaluation Report Conformity REL.CC. Nº 104/2019 emitted on 2019/09/19.