

FRONTIER MEDICAL SCREENS UREA RESISTANCE CERTIFICATE



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Confidential Report

Our Ref: Supplement to E-005904/2



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Notified Body
for PPE Directive,
Construction Products Regulation
& Marine Equipment Directive
I.D. No. 0338 & 0339



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Date: 22 October 2018

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E-005904/2

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Client: Camira Fabrics Limited
Meltham Mills
Meltham
West Yorkshire
HD9 4AY

Job Title: Tests on one fabric

Client's Order No: 83A00933

Date of Receipt: 5th October 2018
Date of Test Start: 11th October 2018

Description of Sample(s): One fabric identified as follows, were received for testing:

Vita (C) Americano CALL 8348

Work Requested: We were asked to make the following tests:

Schildknecht Flexing ISO 7854: 1997 Method B
Determination of Sulphur Staining BS 3424 Method 22A



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Camira Fabrics Limited

Samples were identified as follows:

Vita (C) Americano CALL 8348

Laboratory Work

The tests were made in Standard Atmosphere ($65 \pm 4\%$ relative humidity at $20 \pm 2^\circ\text{C}$) the sample having been freely and continuously exposed to that atmosphere for at least 24 hours prior to testing. Specimens have been taken from the sample as described in the specified standard.

Resistance to Damage by Flexing

Flex cracking resistance was tested following the procedure in Method B – Schildknecht method, of BS EN ISO 7854: 1997 (BS 3424: Part 9: 1996), “Rubber- or plastics-coated fabrics – Determination of resistance to damage by flexing”. Three specimens, in each direction, were tested for a predetermined number of cycles.

At the clients’ request, the specimens were to be inspected at 400 000 cycles.

The flexing damage was assessed according to the following methods.

The overall appearance of the specimens was assessed for deterioration considering all visible factors such as wrinkling, cracking, flaking and discolouration. Specimens were graded, without magnification, using the 4 part numerical scale.

Each specimen was examined, under magnification, to determine depth, length and number of cracks. Depth of cracking was assessed using the descriptive scale. The length of the longest crack (mm) and the number of cracks have been reported.

Determination of Sulphur Staining

The sample was tested in accordance with Method 22A of BS 3424: Part 19: 1989 (2016).

Both surfaces of the test specimen were compared with the original sample and the contrast between them assessed using standard grey scales for staining; 5 represents no staining and 1 severe staining.

The results for all tests are given in the table on the following page.



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TESTING • CERTIFICATION • AUDITING

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Camira Fabrics Limited

RESULTS

Sample Ref: Vita (C) Americano CALL 8348

ASSESSMENT OF SCHILDKNECHT FLEX DAMAGE AT 400 000 CYCLES						
Specimen Number	1 (Length)	2 (Length)	3 (Length)	4 (Width)	5 (Width)	6 (Width)
Deterioration in Appearance	2-3	2-3	2-3	2-3	2-3	2-3
Type of damage (if any)	Moderate to severe creasing	Moderate to severe creasing	Moderate to severe creasing	Moderate to severe creasing	Moderate to severe creasing	Moderate to severe creasing
Depth of Cracking	A	A	A	A	A	A
Number of Cracks Of The Lowest Grade	> 10	6	6	1	1	3
Length Of Longest Crack of The Lowest Grade (mm)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

Deterioration In appearance

- 0 None
- 1 Slight
- 2 Moderate
- 3 Severe

Depth of Cracking

- Nil no cracking
- A surface or finish crack, not exposing the cellular or middle layer
- B cracking into but not right through the middle layer, or, in the case of single-layer coatings, not exposing the base fabric
- C cracking through to the base fabric
- D cracking right through the material



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Camira Fabrics Limited

RESULTS

Sample Ref: Vita (C) Americano CALL 8348

Determination of Sulphur Staining

	Face side	Reverse side
Staining rating immediately after test	4-5	4
Staining rating after 24 hours	4-5	4

Reported by: *E. Goodfellow*

Miss E Goodfellow
 Laboratory Technician

Countersigned by: *P. Hutchings*

Mr P Hutchings
 Operational Head

Note: This report relates only to the samples submitted and as described in the report.

Enquiries concerning this report should be addressed to Customer Services.



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