



# Confidential Report

**Our Ref: E-036268**





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Website: [www.bttg.co.uk](http://www.bttg.co.uk)

Date: 02 August 2024

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Client: Camira Fabrics Ltd  
The Watermill  
Wheatley Park  
Mirfield  
West Yorkshire  
WF14 8HE

Job Title: Testing on one sample

Client's Order No: 83A28435

Date of Receipt: 25<sup>th</sup> July 2024  
Date of Test Start: 31<sup>st</sup> July 2024

Description of Sample(s): One sample, identified as follows, was received for testing:  
  
Sample 1 – Vita; Colour: Marina (batch 544196)

Work Requested: We were asked to make the following test:  
  
Schildknecht Flexing ISO 7854: 1997 Method B





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**Camira Fabrics Ltd**

Sample was identified as follows:

Sample 1 – Vita; Colour: Marina (batch 544196)

Laboratory Work

The tests were made in Standard Atmosphere (65 ± 4 % relative humidity at 20 ± 2°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 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.

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 has been reported.

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

Where required to make a judgement to any pass/fail criteria an estimation of uncertainty of measurement has been taken into account. Under our policy we have used a non-binary decision rule. See our decision rules policy (<http://www.bttg.co.uk/decision-rules-policy>) for further information.

Reported by: ..... *Alan Newton* ..... Mr A Newton, Senior Customer Service Officer

Countersigned by: ..... *P Hutchings* ..... Mr P Hutchings, Client Support Specialist

Enquiries concerning this report should be addressed to Customer Services.





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Sample: Sample 1 – Vita; Colour: Marina (batch 544196)

RESULTS:

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	2	2	2	2	2
Type of damage (if any)	Wrinkling and Creasing	Wrinkling and Creasing	Wrinkling and Creasing	Wrinkling and Creasing	Wrinkling and Creasing	Wrinkling and Creasing
Depth of Cracking	Nil	Nil	Nil	Nil	Nil	Nil
Number of Cracks of the Lowest Grade	N/A	N/A	N/A	N/A	N/A	N/A
Length of Longest Crack of the Lowest Grade (mm)	N/A	N/A	N/A	N/A	N/A	N/A

N/A = not applicable

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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## Annex

### Summary of Uncertainty Budgets

Flexing Resistance      Not applicable (subjective assessment)



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