



Confidential Report

Our Ref: E-003517



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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: 11 April 2018

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

Job Title: Flexing on one sample

Client's Order No: 64455

Date of Receipt: 15th March 2018
Date of Test Start: 27th March 2018

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

Manila / Kiwi / 01141020

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

Schildknecht Flexing ISO 7854: 1997 Method B



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TESTING • CERTIFICATION • AUDITING

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Camira Fabrics Limited

Sample was identified as follows:

Manila / Kiwi / 01141020

Laboratory Work

The tests were made in Standard Atmosphere (65 ± 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.

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

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

Reported by: 

Mrs S Jones
Laboratory Technician

Countersigned by: 

Mr P Hutchings
Operational Head

Enquiries concerning this report should be addressed to Customer Services.



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RESULTS

Sample Ref: Manila / Kiwi / 01141020

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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	1-2	1-2	1-2	2	2	2
Type of damage (if any)	Slight to moderate creasing	Slight to moderate creasing	Slight to moderate creasing	Moderate creasing	Moderate creasing	Moderate creasing
Depth of Cracking	Nil	A	Nil	A	A	A
Number of Cracks Of The Lowest Grade	0	4	0	> 10	> 10	> 10
Length Of Longest Crack of The Lowest Grade (mm)	N/A	2	N/A	7	7	8

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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