

Shirley Technologies Limited Unit 11, Westpoint Enterprise Park Clarence Avenue, Trafford Park Manchester, M17 1QS England

Tel: +44 (0)161 869 1610 Fax: +44 (0)161 872 6492 Web: http://www.shirleytech.com Email: info@shirleytech.co.uk

30 July 2014

Page 1 of 1

Our Ref:

37181/STL/IGS

Your Ref:

P/Order No. M49574

Camira Fabrics Ltd Meltham Mills Meltham West Yorkshire HD9 4AY FAO David Brook

Dear David,

Please find enclosed our four Confidential Test Report No. 37181 on "Colour Fastness Testing of Fabrics".

Yours sincerely

lan Strudwick Technical Manager









Confidential Report

Our Ref: 37181/STL/IGS









Shirley Technologies Limited Unit 11, Westpoint Enterprise Park Clarence Avenue, Trafford Park Manchester, M17 1QS England

Tel: +44 (0)161 869 1610 Fax: +44 (0)161 872 6492 Web: http://www.shirleytech.com Email: info@shirleytech.co.uk

30 July 2014

Page 1 of 3

Our Ref: Your Ref: 37181/STL/IGS P/Order No. M49574

Client:

Camira Fabrics Ltd

Address:

Camira Fabrics Ltd Meltham Mills Meltham West Yorkshire HD9 4AY FAO David Brook

Job Title:

Colour Fastness Testing of Fabric Samples

Client's Order Ref:

P/Order No. M49574

Date of Receipt:

23 July 2014

Description of Sample(s):

Sample of fabrics with references as follows:

"Vita" fabrics,

- Avocado
- Expresso
- Rust

"Folio" fabrics.

- Crown
- Guineu
- Farthing

Work Requested:

Colour fastness to chlorinated water (50mg/l) and to sulphur staining





Shirley Technologies Limited Unit 11, Westpoint Enterprise Park Clarence Avenue, Trafford Park Manchester, M17 1QS England

Tel: +44 (0)161 869 1610 Fax: +44 (0)161 872 6492 Web: http://www.shirleytech.com Email: info@shirleytech.co.uk

30 July 2014

Page 2 of 3

Our Ref: Your Ref: 37181/STL/IGS P/Order No. M49574

Client:

Camira Fabrics Ltd

LABORATORY TESTING AND RESULTS

Coated Fabrics - Determination of Sulphur Staining (BS3424: Part 19: 1989: Method 22A)

A sample of the fabric is immersed in acidified sodium sulphide solution for 30 minutes, after which the colour change of both sides of the sample is assessed both immediately and after 24 hours reconditioning. After drying the level of colour change is assessed in accordance with BSEN20103 A02.

Assessments of colour change are made in accordance with the 9-step grey scales described in BSEN20105:A02, which range from a rating of 5 indicating no change to a rating of 1 indicating severe change. The fastness rating of the specimen is that number of the grey scale which has a perceived colour difference nearest in magnitude to the perceived colour difference between the original piece and the tested specimen, when viewed under specified assessment conditions.

	Face side (fabric)		Reverse side	
	Immediately	After 24 hours	<u>Immediately</u>	After 24 hours
"Vita" - Avocado	5	5	4-5 (1)	4-5
"Vita" - Expresso	5	5	4-5 (1)	4-5
"Vita" - Rust	5	5	4-5 (1)	4-5
"Folio" - Crown	5	5	4-5 ⁽¹⁾	4-5
"Folio" – Guineu	5	5	4-5 ⁽¹⁾	4-5
"Folio" - Farthing	5	5	4-5 (1)	4-5

(1) the perceived colour change was determined to be actually due to the fabric absorbing the test liquid





Shirley Technologies Limited Unit 11, Westpoint Enterprise Park Clarence Avenue, Trafford Park Manchester, M17 1QS England

Tel: +44 (0)161 869 1610 Fax: +44 (0)161 872 6492 Web: http://www.shirleytech.com Email: info@shirleytech.co.uk

30 July 2014

Page 3 of 3

Our Ref: Your Ref: 37181/STL/IGS

P/Order No. M49574

Client:

Camira Fabrics Ltd

Colour Fastness to Chlorinated Water (BSENISO105 E03:2010)

A sample of fabric is placed into a pot along with a solution containing 50mg/litre of active chlorine, at a liquor ratio of 40:1, and rotated on a standard washwheel at $(27 \pm 2)^{\circ}$ C for 60 minutes. On completion the fabric is squeezed and allowed to dry away from direct light. After drying the level of colour change is assessed in accordance with BSEN20103 A02.

Assessments of colour change are made in accordance with the 9-step grey scales described in BSEN20105:A02, which range from a rating of 5 indicating no change to a rating of 1 indicating severe change. The fastness rating of the specimen is that number of the grey scale which has a perceived colour difference nearest in magnitude to the perceived colour difference between the original piece and the tested specimen, when viewed under specified assessment conditions.

	Face side (fabric)
"Vita" - Avocado	5
"Vita" - Expresso	5
"Vita" – Rust	5
"Folio" - Crown	5
"Folio" – Guineu	5
"Folio" - Farthing	5

STL would note that, whilst not required by the test method, all test pieces exhibited a notably lighter colour on their reverse, due to the action of the active chlorine on the fabric backing.

Reported by:

Ian Strudwick Technical Manager

Countersigned by:

John Buckley Principal Analyst

Enquiries concerning this report should be addressed to Customer Services.

Photoley

