



Confidential Report

Our Ref: E-033179





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Date: 4 December 2023

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Your Ref: PO10013

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Client: Ultrafabrics Europe Ltd
114 The Burrows
East Goscoate
Leicestershire
LE7 3XD

Job Title: Coating Adhesion Testing

Client's Order No: PO10013

Date of Receipt: 3rd November 2023
Date of Test Start: 29th November 2023

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

291-5806 (Lot #B2030-4068-33.0)

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

Coating adhesion to ASTM D751-06

† not UKAS accredited



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Ultrafabrics Europe Ltd

Sample was identified as follows:

291-5806 (Lot #B2030-4068-33.0)

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.

Cleansing Pretreatment:

No pre-treatment was carried out. Specimens were tested in the “as received” condition.

Adhesion of Coating to Fabric

Coating adhesion strength was measured following the procedure detailed in ASTM D751-06 “Standard Test Methods for Coated Fabrics”, This test determines peel adhesion to separate the coating from the substrate cloth.

Three length-way and three width-way specimens were prepared as specified in the standard, each 25 mm wide.

The tests were made on a Testometric CRE machine fitted with flat faced jaws, having an initial separation of 25 mm and operating at a speed of 2.0 ± 0.1 in/min. The ply separation was continued over a distance of a minimum of 76 mm.

The average value was recorded for each specimen in each direction and the average of the 5 high peaks (not including the initial peak) is used to determine the force N/25mm.

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

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RESULTS

Sample Ref: 291-5806 (Lot #B2030-4068-33.0)

COATING ADHESION				
Specimen Direction	Specimen 1 average (N/25mm)	Specimen 2 average (N/25mm)	Specimen 3 average (N/25mm)	Mean value (N/25mm)
Length	43.268	36.746	31.660	37.225
Width	32.360	22.200	25.974	26.845

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:  Mrs E Collinson, Principal Laboratory Technician

Countersigned by:  Mr P Hutchings, Client Support Specialist

Enquiries concerning this report should be addressed to Customer Services.



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TESTING • CERTIFICATION • AUDITING

Ultrafabrics Europe Ltd

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Annex

Summary of Uncertainty Budgets

Coating Adhesion $\pm 5.3\%$



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