

TEST REPORT

Report Ref.	LEI22052076A Interim		
Date Received	20/05/2022	Date Issued	25/05/2022

Company Name & Address	Warwick Fabrics
	Unit 3, Gateway 12
	Hardwicke, GL2 2BY
	GBR
Contact Name	Francesca

Order Number	Charlestown
Sample Description	Charlestown FR
Ref / Style Number	Charlestown
Quality	Charlestown
Supplier	Warwick Fabrics UK Ltd
End Use	Upholstery
No Of Samples	1
Quoted Fibre Composition	100% Polyester
Retailer	General

Test	Method	Sample	Result
Colour Fastness to Water	BS EN ISO 105 E01: 2013		See Results
Colour Fastness to Rubbing - Dry	BS EN ISO 105 X12: 2016		See Results
Colour Fastness to Rubbing - Wet	BS EN ISO 105 X12: 2016		See Results
Colour Fastness to Light - STD 5	BS EN ISO 105 B02: 2014		See Results
Tear Properties of Fabrics - Wing-shaped Tear	BS EN ISO 13937-3: 2000		See Results
Tensile Properties of Fabrics - Strip method	BS EN ISO 13934-1: 2013		See Results
Upholstery Seam Slippage Resistance - Fixed Load	BS EN ISO 13936-2: 2004		See Results
Upholstery Pilling - Martindale Method	BS EN ISO 12945-2: 2000		No Requirem ent
Martindale Abrasion Resistance - 12 kPa	BS EN 14465: 2003 Annex A		See Results

LAB REPORT LEI22052076A Interim : Page 1 of 11













Tests marked (^) in this report have been performed by an approved 3rd party laboratory. Tests marked (*) in this report are not included in our UKAS scope of accreditation.

Please Note: There are no requirements for the test carried out at the customer's request. This is due to the test requested deviating from the retailers performance standards.

Please Note: The Flammability will follow on report number LEI22052079A once completed

Sam Davey

(Jobsheet Technician)









Colour Fastness to Water BS EN ISO 105 E01: 2013

	Result	Change Performance Level	Stain Performance Level
Colour Change	4-5		A = 4 Change/3-4 Stain
			B = 3-4 Change/3 Stain
Colour Staining			
Acetate	4 - 5		
Cotton	4 - 5		
Nylon	4 - 5		
Polyester	4 - 5		
Acrylic	5		
Wool	4 - 5		
Performance level Change	A		
Performance level Stain	А		
Overall performance level	А		
BS 2543: 2004 Classification (Minimum levels for customer reference)			
	Change	Stain	
Light Domestic	A = 4	A = 3-4	
General Domestic	A = 4	A = 3-4	
Heavy Domestic	A = 4	A = 3-4	
General Contract	A = 4	A = 3-4	
Severe Contract	A = 4	A = 3-4	

Overall Test Result: See Results Uncertainty: 1/2 grade

Colour Fastness to Rubbing - Dry BS EN ISO 105 X12: 2016 Conditioning Parameters: 20°C±2°C & 65% rH±4% rH

LAB REPORT LEI22052076A Interim : Page 3 of 11







	Warp staining	Weft staining	Performance Level
	4-5	4-5	A - 4-5
			B - 4
			C - 3-4
Performance level	А	A	
Overall performance level	А		
BS 2543: 2004 Classification (Minimum levels for customer reference)			
Light Domestic	B = 4		
General Domestic	B = 4		
Heavy Domestic	B = 4		
General Contract	B = 4		
Severe Contract	B = 4		
Force	9N +/- 0.2N		
Rubbing Finger	Rectangular		
Conditiioning Time	4 Hours		

Overall Test Result: See Results Uncertainty: 1/2 grade

Colour Fastness to Rubbing - Wet BS EN ISO 105 X12: 2016 Conditioning Parameters: 20°C±2°C & 65% rH±4% rH





	Warp staining	Weft staining	Performance Level
	4-5	4-5	A = 3-4
			B = 3
			C = 2-3
Performance level	А	A	
Overall performance level	А		
BS 2543: 2004 Classification (Minimum levels for customer reference)			
Light Domestic	B = 3		
General Domestic	B = 3		
Heavy Domestic	B = 3		
General Contract	B = 3		
Severe Contract	B = 3		
Force	9N +/- 0.2N		
Rubbing Finger	Rectangular		
Conditioning Time	4 Hours		
Percentage Soak	95% - 100%		

Overall Test Result: See Results

Uncertainty: 1/2 grade

Colour Fastness to Light - STD 5 BS EN ISO 105 B02: 2014 Conditioning Parameters: 20°C±2°C & 65% rH±4% rH







	Change in Shade Result	Performance Level
		B = 5
Overall performance level		
BS 2543: 2004 Classification		
(Minimum levels for customer		
reference)		
Light Domostic	B = 5	
Light Domestic		
General Domestic	B = 5	
Heavy Domestic	B = 5	
General Contract	B = 5	
Severe Contract	N/A	

Overall Test Result: See Results Uncertainty: 1/2 grade

Tear Properties of Fabrics - Wing-shaped Tear BS EN ISO 13937-3: 2000

	Across Warp	Across Weft	Performance Level
1	143 N	38.5 N	A = 40N
2	130 N	37.4 N	B = 30N
3	132 N	37 N	C = 25N
4	137 N	38.2 N	D = 20N
5	149 N	37.1 N	E = 15N
Average	138 N	38 N	
Performance level	А	В	
Overall performance level	В		
BS 2543: 2004 Classification (Minimum levels for customer reference)			
Light Domestic	E = 15 N		
General Domestic	D = 20N		
Heavy Domestic	C = 25 N		
General Contract	C = 25 N		
Severe Contract	C = 25 N		

LAB REPORT LEI22052076A Interim : Page 6 of 11









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Overall Test Result: See Results

Uncertainty: ±2.5%

Tensile Properties of Fabrics - Strip method BS EN ISO 13934-1: 2013

Conditioning Parameters: 20°C±2°C & 65% rH±4% rH

	Warp Force	Warp Elongation	Weft Force	Weft Elongation	Performance Level
1	2308 N	29.36 %	655 N	20.50 %	A = 600 N
2	2018 N	28.01 %	581 N	18.54 %	B = 400 N
3	1916 N	27.04 %	665 N	20.50 %	C = 350 N
4	1870 N	27.04 %	669 N	20.65 %	D = 250 N
5	2050 N	28.50 %	689 N	20.75 %	E = N/A
Average	2032 N	27.99 %	652 N	20.19 %	
Performance level	А	N/A	Α	N/A	
Overall performance level	A				
BS 2543: 2004 Classification (Minimum levels for customer reference)					
Light Domestic	C - 350 N				
General Domestic	C - 350 N				
Heavy Domestic	B = 400 N				
General Contract	B = 400 N				
Severe Contract	B = 400 N				

Overall Test Result: See Results

Uncertainty: ±1.6%

Upholstery Seam Slippage Resistance - Fixed Load BS EN ISO 13936-2: 2004

Conditioning Parameters: 20°C±2°C & 65% rH±4% rH









	Warp way seam opening @ 180 N	Weft way seam opening @ 180 N	Performance Level
180N Test load			
1	1 mm	1 mm	A = 4mm
2	1 mm	1 mm	B = 6mm
3	1 mm	1 mm	C = 8mm
4	1 mm	1 mm	D + E = N/A
5	1 mm	1 mm	
Average	1 mm	1 mm	
Performance level	А	A	
Overall performance level	A		
BS 2543: 2004 Classification (Minimum levels for customer reference)			
Light Domestic	C - ≤8mm		
General Domestic	B - ≤ 6mm		
Heavy Domestic	A = ≤ 4mm		
General Contract	A = ≤ 4mm		
Severe Contract	A = ≤ 4mm		

Overall Test Result: See Results

Uncertainty: ±2.6%

Upholstery Pilling - Martindale Method BS EN ISO 12945-2: 2000

Conditioning Parameters: 20°C±2°C & 65% rH±4% rH







	Assessment @ 2000 Revs	Assessment @ 5000 Revs*	Performance Level
1	4-5	4-5	No Requirements
2	4-5	4-5	
3	4-5	4-5	
Attributes	Fuzzing	Fuzzing	
Performance level	N/A		
Overall performance level	N/A		
BS 2543: 2004 Classification (Minimum levels for customer reference)			
Light Domestic	C - 3-4		
General Domestic	C - 3-4		
Heavy Domestic	B = 4		
General Contract	B = 4		
Severe Contract	B = 4		
*Results at 5000 revs are informative			
Test Load:	415g		
Tested Against:	Wool Abradent		

Overall Test Result: No Requirement

Uncertainty: 1/2 grade

Martindale Abrasion Resistance - 12 kPa BS EN 14465: 2003 Annex A

Conditioning Parameters: 20°C±2°C & 65% rH±4% rH







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Total Quality. Assured.

	Results	Requirements		
Shade Change @ 3000 revs	3 - 4			
	Abrasion resistance*	Performance level		
Specimen 1	25,000 Revs	A = 35,000		
Specimen 2	25,000 Revs	B = 12,000 - 30,000		
Specimen 3	25,000 Revs	C = 4,000 - 10,000		
Overall result**	25,000 Revs			
Overall performance level	В			
Test information				
Test load: 12 kPa				
Fabric Type	Chenille			
Breakdown criteria	Chenille pile is fully worn off			
Inspection interval	Every 5000			
Foam used	Yes			
*The abrasion resistance result is the last inspection point at which no breakdown was observed,				
**The overall result is the lowest individual test result of all the test specimens tested.				
BS 2543: 2004 Classification (Minimum levels for customer reference)				
	Flat woven	Figured weave	Woven/Flocked/Non- Woven Pile Fabrics	Knitted
Light Domestic	15,000	12,000	15,000	15,000
General Domestic	20,000	15,000	20,000	20,000
Heavy Domestic	25,000	20,000	25,000	25,000
General Contract	30,000	30,000	25,000	25,000
Severe Contract	40,000	40,000	30,000	30,000

Overall Test Result: See Results

Uncertainty: ±17.1%

Report Type	Issue Date	Revision Reason	Revision Description
Interim	25-May-22	Interim Issue	N/A

LAB REPORT LEI22052076A Interim : Page 10 of 11







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LAB REPORT LEI22052076A Interim: Page 11 of 11









FLAMMABILITY TEST REPORT

Company Name & Address: WARWICK FABRICS UK LTD

UNIT 3

GATEWAY 12 BUSINESS PARK

HARDWICKE GLOUCESTER GL2 2BY

Contact Name: FRANCESCA / KATHERINE

Sample Details

Order No.: Charlestown
Description: Charlestown FR
Ref. / Style No.: Charlestown

Colour:

Quality: Charlestown

Supplier: Warwick Fabrics UK Ltd

Batch No.: Not stated End Use: Upholstery

Number of Samples: 1

Quoted Fibre Content: 100% Polyester Retailer: General Specification No.: Not stated

Sample Description: Grey coloured woven fabric with pile

Test Method	Pre Treatment	Requirement	Result	
BS 5852: Part 1: 1979, Ignition source 0 (Cigarette)	Water soaked as clause 4.2 to 4.5 of BS 5651:1978 as modified by The Furniture and Furnishings (fire) (safety) Regulations 1988 (as amended) then line dried.	Compliance with Schedule 4 Part 1 (The cigarette test) of The Furniture and Furnishings (fire) (safety) Regulations 1988 (as amended).	Complies	
Note: The final upholstery composite was not known to the customer so the customer requested that the cigarette test				
be carried out over combusti	on modified foam with a density of 2	4-26 kg/m ³		
BS 5852: Part 1: 1979, Ignition source 1 (Match)	Water soaked as clause 4.2 to 4.5 of BS 5651:1978 as modified by The Furniture and Furnishings (fire) (safety) Regulations 1988 (as amended) then line dried.	Compliance with Schedule 5 Part 1 (The match test) of The Furniture and Furnishings (fire) (safety) Regulations 1988 (as amended).	Complies	

STEVEN OWEN
(Technical & Operational
Excellence Manager)

ANDREW HALLETT (Flammability Team Leader)

CAROLE SPOWART
(Flammability
Administrator)

GREGORY JAMES (Flammability Technician)

Report No.: LEI22052079A Page 1 of 3







Registered in England No. 1408264. Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ







FLAMMABILITY TEST REPORT

Test Specification

Test Method: BS 5852: Part 1: 1979 as modified by Schedule 4 Part 1 & Schedule 5 Part 1 of

The Furniture and Furnishings (fire) (safety) Regulations 1988 (as amended).

Ignition Source: Ignition source 0: Filterless cigarette

Ignition source 1: Butane Gas flowing at 45ml/min @ 25°C.

Flame Application Time: 20±1 seconds

Side Tested: Face

Uncertainty of Measurement

The uncertainty of measurement for Schedule 4 Part 1 source 0 has been estimated to be 0.03%. The uncertainty of measurement for Schedule 5 Part 1 source 1 has been estimated to be 5.43%.

Filling Specification

Filling Type: Polyurethane foam

Supplier / Grade: Source 0: Carpenter / RX25140 Combustion Modified

Source 1: Carpenter / RP21130 unmodified

Size: 450 X 300 X 75mm (back) & 450 X 150 X 75mm (seat)

Density / Hardness: Source 0: 24-26 kg/m³ / 120-160N

Source 1: 20-22 kg/m³ / Type B, 130

Pre-treatment / Durability Procedure

Water soaked as clause 4.2 to 4.5 of BS 5651:1978 as modified by The Furniture and Furnishings (fire) (safety) Regulations 1988 (as amended) then line dried.

Conditioning

Prior to Testing: At least 72 hours in ambient indoor conditions, then at least 16 hours in an

atmosphere having a temperature of 20±5°C and a relative humidity of 50±20%

At Time of Testing: Temperature between 15°C & 30°C. Relative humidity between 20% & 70%

Test Results

"The following test results relate only to the ignitability of the combinations of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use."

Ignition source 0 (Test 1):	The cigarette burnt out within 21 minutes, there was no flaming or progressive
	smouldering. (Pass)
Ignition source 0 (Test 2):	The cigarette burnt out within 22 minutes, there was no flaming or progressive
	smouldering. (Pass)
Ignition source 1 (Test 1):	Flaming ceased with the removal of the burner, there was no progressive
	smouldering. (Pass)
Ignition source 1 (Test 2):	Flaming ceased with the removal of the burner, there was no progressive
	smouldering. (Pass)

Conclusions

The composite tested meets the requirements of Schedule 4 Part 1 (The cigarette test) of The Furniture and Furnishings (fire) (safety) Regulations 1988 (as amended). **PASS.**

The fabric tested meets the requirements of Schedule 5 Part 1 (The match test) of The Furniture and Furnishings (fire) (safety) Regulations 1988 (as amended). **PASS.**

Report No.: LEI22052079A Page 2 of 3









FLAMMABILITY TEST REPORT

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Report No.: LEI22052079A Page 3 of 3









Test Report no:

Design / Colour :

Sample Description:



A1229624

5001452

CHARLESTOWN

D'DECOR HOME FABRICS PVT LTD

Plot no F6 & 6/1, MIDC, Tarapur Indl Area, Boisar, Dist-Palghar 401506, Maharashtra, India

Email-dipankar.mukherjee@ddecor.com

Issue Date:

Testing Period:

Sample received Date:

21.04.22

16.04.22

16.04.22 - 21.04.22

Page 1 of 3

QUALITY TEST REPORT TC6430

Customer:	FABRICULTURE	Place analysis:	Laboratory D'Decor
Batch No:	DDHF108552 / 134890	End use :	Upholstery
Width:	143.0 cm / 140.0 cm	Sample Type :	Fabric
(Sample Receive	ed In Good Condition)		
Atmosphere fo	or conditioning and testing: ASTM-21±2°C,RH 65±5%		
	Specification		Results
I. Mecha	nical Testing		
	1.Textile Materials		
1) Martino	dale Abrasion resistance	Final e	evaluation:
ISC	12947-2:2016		
Nominal pre	essure of 12 kPa used in the test.		25,000 cycles
End Point - pi	le worn off		
Atmosphere for	conditioning and testing: ISO-20±2°C,RH 65±4%		
2.	Fabric weight		
	TM D3776/D3776M : 09A (RA2013) tion-C		470.000 g/m2
fab	ric weight does not includes selvedge		
Atmosphere for	conditioning and testing: ASTM-21±2°C,RH 65±5%		
3.5	Seam Slippage	Warp	
ISC) 13936-2 : 2004		mm
Loa	ad applied 180N	Weft	
			mm

4) Wyzenbeek Wear Test	Number of Avg double rubs	Number of Avg double rubs			
ASTM D 4157: 13, (RA - 2017)	Warp Under testing Rubs				
used abradant: cotton duck #10					
End Point - pile worn off	Weft				
	Under testing	_ Rubs			
5. Brush Pilling	Final evaluation :	_			
ASTMD 3511					
4 minutes with brush	<u>results of the individia</u>	<u>l sample</u>			
	grade on pilling scale	4	Left sample		
2 minutes face-to-face	grade on pilling scale	4	Centred sample		
	grade on pilling scale	4	Right sample		
	grade on pilling scale	4	Average		
6. Tensile Strength	Warp				
	345.3	_lb			
ISO 13934 - 1: 2013					
	Wash				
	Weft				
	110.0	_lb			
7. Martindale Pilling					
ISO 12945-2 :2000					
Abradant fabric : Wool					
Visual Assessment Viewer as per Photographic standard					
5 : Excellent - No Pilling					
4 : Good - Slight Pilling	Grade on Photographic standard	4	after 5000 rubs		
3 : Fair - Noticeable Pilling					
2 : Poor - Considerable Pilling					
1: Very Poor - Severe Pilling					
			Page 2 of 3		
II. Chemical Testing					
1.Textile					
8) Colour fastness to Rubbing	Dry				
ISO 105-X12 :2016					
	ı				

5: Excellent - No Staining	Grade on grey scale	4-5	
4 : Good - Slight Staining 3 : Fair - Noticeable Staining 2 : Poor - Considerable Staining	Wet		
1 : Very Poor - Severe Staining	Grade on grey scale	4-5	
Atmosphere for conditioning and testing: ISO-20±2°C,RH 65±4%			
9) Domestic Washing & Drying Procedure (Dimensional Change)	dimensional change Warpwise		
ISO 6330:2012, ISO 3759:2011, ISO 5077:2007		- 0. 18%	
M/C- Type A (Front loading , horizontal drum type. m/c wash at 40°C 4G gental cycle followed by tumble dry.	dimensional change Weftwise		
	I	- 0. 19%	
10) Colour fastness to domestic Washing	Staining to Acetate	4	
	Staining to Cotton	4	
ISO 105 - C06 : 2010	Staining to Nylon	4-5	
	Staining to Polyester	4-5	
	Staining to Acrylic	4	
	Staining to Wool	4-5	
11) Colour fastness to Light	Test result		
ISO 105 B02:2014	<u>BSW@5</u>	Grade _	4-5
Air cooled Xenon-Arc Lamp fading Test			
BWS=BLUE WOOL STD			
Remark	Low Martindale		
End use of the Fabric :	Use in Ligi	ht Upholstery	
Wash Care	40°C Wash non Chlorine Bleach Whe	en needed Low Tumb Dry Clean	le Dry Do Not

APPROVED BY

Dipankar Mukherjee- GM QA & GC Laboratory

AUTHORISED SIGNATORY Mr. Dipankar Mukherjee (Quality Manager)

Mr. Hari Burute (Technical Manager)

END OF TEST REPORT

Page 3 of 3