



Textiles and Apparel Solutions Centre,
 The Warehouse, Brewery Lane,
 Leigh, Lancashire, WN7 2RJ, UK
 Telephone: +44 (0) 1942 265700
 Facsimile: +44 (0) 1942 670 788
 www.intertek.com/consumergoods

BS EN 14465:2003 Test Report

Report Ref: LEHTX00601372	Buying Division: NONE GIVEN
Date Received: 20/10/2011	Date Issued: 24/10/2011

Company Name & Address	FLAMEPROOFING LIMITED UNITS 1 & 2 LYON INDUSTRIAL ESTATE MOSS ROSE MILL SPRINGFIELD ROAD KEARSLEY BOLTON BL4 8NB
Contact Name	JOHN BRANNAN

Order No.:	NONE GIVEN
Description:	NONE GIVEN
Colour(s):	RUST
Supplier:	AGUA FABRICS
End Use:	CONTRACT FURNISHINGS
Quoted Composition:	100% POLYESTER
Ref/Style/Stroke No.:	NONE GIVEN
Quality:	AQUA NOVA
Batch No.:	NONE GIVEN
Spec. No.:	TABLE 1 & 2

Test	Method	Colour	Pass/Fail
COLOUR FASTNESS TO WATER	BS EN ISO 105 E01: 2010		Pass A
COLOUR FASTNESS TO RUBBING (DRY)	BS EN ISO 105 X12: 2002		Pass A
COLOUR FASTNESS TO RUBBING (WET)	BS EN ISO 105 X12: 2002		Pass A
COLOUR FASTNESS TO LIGHT - STD 5	BS EN ISO 105 B02: 1999		See Note
TEAR STRENGTH	BS EN ISO 13937-3: 2000		Pass A
TENSILE STRENGTH (STRIP)	BS EN ISO 13934-1: 1999		Pass A
SEAM SLIPPAGE	BS EN ISO 13936-2: 2004		Pass A
ABRASION RESISTANCE (FLAT WOVEN)	BS EN ISO 12947-2/BS EN 14465: 2003 ANNEX A		Pass A

NOTE: The light fastness result will be forwarded once the test is complete.

Heather Fletcher
(Team Leader)





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Upholstery - Colour Fastness to Cold Water								
Sample	Staining (Mulifibre DW) onto:							Minimum Requirements
	Change	Acetate	Cotton	Nylon	Polyester	Acrylic	Wool	
	5	3/4	4/5	4	4/5	4/5	4	A - Change 4 Stain 3/4 B - Change 3/4 Stain 3
Change/Stain Performance Level		Change A			Stain A			
Overall Performance Level		A						
BS 2543: 2004 Classification (Minimum levels for customer reference)								
	LD	GD	HD	GC	SC			
All Fabrics	A - Change 4 Stain 3/4	A - Change 4 Stain 3/4	A - Change 4 Stain 3/4	A - Change 4 Stain 3/4	A - Change 4 Stain 3/4	A - Change 4 Stain 3/4		
Upholstery - Colour Fastness to Rubbing (Dry)								
Sample	Staining Results						Minimum Requirements	
	Warp			Weft				
	GRADE 4/5			GRADE 4/5			A - Dry 4/5 B - Dry 4 C - Dry 3/4	
Performance Level	A			A				
Overall Performance Level	A							
BS 2543: 2004 Classification (Minimum levels for customer reference)								
	LD	GD	HD	GC	SC			
All fabrics	B Dry = 4	B Dry = 4	B Dry = 4	B Dry = 4	B Dry = 4	B Dry = 4		



Upholstery - Colour Fastness to Rubbing (Wet)					
Sample	Staining Results				Minimum Requirements
	Warp	Weft			A - Wet 3/4 B - Wet 3 C - Wet 2/3
	GRADE 4/5	GRADE 4/5			
Performance Level	A	A			
Overall Performance Level	A				
BS 2543: 2004 Classification (Minimum levels for customer reference)					
	LD	GD	HD	GC	SC
All fabrics	B Wet = 3	B Wet = 3	B Wet = 3	B Wet = 3	B Wet = 3
Upholstery - Colour Fastness to Light (STD 5)					
Sample	Results				Minimum Requirements
	RESULT TO FOLLOW				Grade 5
Overall Performance Level					
BS 2543: 2004 Classification (Minimum levels for customer reference)					
	LD	GD	HD	GC	SC
All Fabrics	B - 5	B - 5	B - 5	B - 5	N/A

Upholstery - Wing Rip Tear					RH 65% +/-4% / Temp 20°C +/-2°C	
Sample	Results				Minimum Requirements	
Specimen	Across Warp (N)		Across Weft (N)		A = 40 N B = 30 N C = 25 N D = 20 N E = 15 N	
1	63.5		43.4			
2	62.9		43.6			
3	62.5		41.8			
4	63.0		43.3			
5	62.6		43.9			
Average	62.9		43.2			
Performance Level	A		A			
Overall Performance Level	A					
BS 2543: 2004 Classification (Minimum levels for customer reference)						
	LD	GD	HD	GC	SC	
All Fabrics	E - 15 N	D - 20 N	C - 25 N	C - 25 N	C - 25 N	

Upholstery - Tensile Strength and Elongation (Tested to Destruction)					RH 65% +/-4% / Temp 20°C +/-2°C	
Sample	Warp Results		Weft Results		Minimum Requirements	
Specimen	Force (N)	Elongation (%)	Force (N)	Elongation (%)	A = 600 N B = 400 N C = 350 N D = 250 N E = N/A	
1	1970	34.1	1060	50.3		
2	1950	33.9	1001	47.5		
3	1824	31.9	1064	49.1		
4	1828	33.2	1051	49.4		
5	1504	28.5	1084	50.7		
Average	1815	32.3	1052	49.4		
Performance Level	A	N/A	A	N/A		
Overall Performance Level	A					
BS 2543: 2004 Classification (Minimum levels for customer reference)						
	LD	GD	HD	GC	SC	
All Fabrics	C - 350N	C - 350N	B - 400N	B - 400N	B - 400N	



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Upholstery - Seam Slippage - Load Applied = 180 N				RH 65% +/-4% / Temp 20°C +/-2°C	
Sample	Results			Minimum Requirements	
Specimen	Warp Way Seam Opening (mm)	Weft Way Seam Opening (mm)		A = 4mm B = 6mm C = 8mm D = N/A E = N/A	
1	2.0	3.0			
2	2.0	3.0			
3	2.0	3.0			
4	2.0	3.0			
5	2.0	3.0			
Average	2.0	3.0			
Performance Level	A	A			
Overall Performance Level	A				
BS 2543: 2004 Classification (Minimum levels for customer reference)					
	LD	GD	HD	GC	SC
All Fabrics	C - 6mm	B - 5mm	A - 4mm	A - 4mm	A - 4mm



Upholstery - Martindale Abrasion (12 kPa Load)		RH 65% +/-4% / Temp 20°C +/-2°C			
Sample	Results				Minimum Requirements
	Change in Shade @ 3,000 Cycles = Grade 4/5				
Fabric Type Woven	<p style="text-align: center;">HEADS 2,3 & 4 NO FABRIC BREAKDOWN @ 35,000 REVS NO FABRIC BREAKDOWN @ 100,000 REVS</p>				<p>A = 35,000 revs B = 12,000 / 30,000 revs C = 4,000 / 10,000 revs</p>
Overall Result	100,000 REVS				
Overall Performance Level	A				
BS 2543: 2004 Classification (Minimum levels for customer reference)					
	LD	GD	HD	GC	SC
Flat Woven	B - 15,000	B - 20,000	B - 25,000	B - 30,000	A - 40,000
Figured Weaves	B - 12,000	B - 15,000	B - 20,000	B - 30,000	A - 40,000
Woven/Flocked/Non-Woven Pile Fabrics	C - 15,000	C - 20,000	B - 25,000	B - 25,000	B - 30,000
Knitted	B - 15,000	B - 20,000	B - 25,000	B - 25,000	B - 30,000

Note: The abrasion was tested to 100,000 revs at the customers request.