

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>Accredited to ISO/IEC 17025:2005</p>	BTTG Ltd	
	Issue No: 040	Issue date: 30 October 2014
Unit 14 Wheel Forge Way Ashburton Road West Trafford Park Manchester M17 1EH	Contact: Dr P Hamlyn Tel: +44 (0)161 873 6543 Fax: +44 (0)161 848 7378 E-Mail: info@bttg.co.uk Website: www.bttg.co.uk	
Testing performed by the Organisation at the locations specified below		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address BTTG Testing & Certification Ltd BTTG - High Performance Materials Unit 14 Wheel Forge Way Ashburton Park Ashburton Road West Trafford Park Manchester M17 1EH</p> <p>Local contact Mrs C Austin Tel: +44 (0)161-873 6543 Fax: +44 (0)161-848 7378 Email: caustin@bttg-hpm.co.uk</p>	<p><u>Testing:</u> Fibres Coated Fabrics Textiles, Made-up Textiles Protective Clothing Gloves Geotextiles, Geomembranes Geosynthetic Clay Liners Roofing Membranes Textile Floor Coverings Upholstery</p>	A
<p>Address BTTG Testing & Certification Ltd Fire Technology Services Unit 4B Stag Industrial Estate Atlantic Street Broadheath Altrincham Cheshire WA14 5DW</p> <p>Local contact Mr C Dean Tel: +44 (0)161-929 8056 Fax: +44 (0)161-929 8070 Email: cdean@bttg-fts.co.uk</p>	<p><u>Testing:</u> Textiles Protective Clothing Gloves</p>	B
<p>Address Shirley Technologies Ltd Unit 12 Westpoint Enterprise Park Clarence Avenue Trafford Park Manchester M17 1QS</p> <p>Local contact Dr A Sagar Tel: +44 (0)161-869 1610 Fax: +44 (0)161-872 6492 Email: tony.sagar@shirleytech.co.uk</p>	<p><u>Testing:</u> Coated Fabrics Textiles, Made-up textiles Protective clothing Gloves Textile Floor Coverings Leather Paint and varnishes Toys Upholstery Process chemicals</p>	C



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Location details	Activity	Location code
<p>Address BTTG Testing & Certification Ltd Wira House West Park Ring Road Leeds West Yorkshire LS16 6QL</p> <p>Local contact Mr M Nunney Tel: +44 (0)113-259 1999 Fax: +44 (0)113-278 0306 Email: mike.nunney@bttg.co.uk</p>	<p><u>Testing:</u> Textiles Textile floor coverings Toys Furniture and furnishings Bedding and bedding composites Building materials Floor and wall coverings Impact absorbing playground surfaces Gymnasium equipment Tents</p>	<p>D</p>
<p>Address Shirley Technologies Ltd Wira House West Park Ring Road Leeds West Yorkshire LS16 6QL</p> <p>Local contact Mrs J Bullers Tel: +44 (0)113-259 1999 Fax: +44 (0)113-278 0306 Email: julia.bullers@shirleytech.co.uk</p>	<p><u>Testing:</u> Fibres Yarns Textiles, Made up textiles Upholstery and furnishing Fabrics Tents Coated Fabrics Toys</p>	<p>E</p>

Flexible Scope

The laboratory is accredited to ISO/IEC17025:2005 for testing activities in accordance with the standards highlighted in the schedule. This may also include tests on the same or similar product types against standards, or customer-specified methods, that are not specifically listed in this Schedule, providing that:

- (1) The method or standard does not introduce new principles of measurement.
- (2) The method or standard does not require measurements to be made outside the parametric boundaries defined within the standard specifications already accredited and detailed within this Schedule of Accreditation.

Information about flexible scopes of accreditation is available in UKAS document LAB39 and EA document EA-2/05.



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FIBRES, YARNS, FABRICS, COATED FABRICS, MADE UP TEXTILES	<u>Biological Tests and related Opinions and Interpretations</u>		
	Inherent antibacterial properties	Documented In-House Method STS 51:2012 JIS L 1902:2008	C
	% reduction in colony counts (antimicrobial activity)	ASTM E 2149-01 (withdrawn) ASTM E 2149-10 ASTM E 2149-13a	C
	Evaluation of antibacterial finishes	AATCC 100:2012	C
	Examination of antibacterial effect of impregnated textiles by agar diffusion test	SNV 195920:1994 BS EN ISO 20645:2004	C
	Examination of antimycotic effect of impregnated textiles by agar diffusion	SNV 195921:1994	C
	Assessment of textiles for antifungal activity: soil burial, mildew and rot resistance	AATCC 30:2004	C
	Resistance of textiles to microbiological deterioration by soil burial	BS 6085:1992 (superseded, withdrawn)	C
	Resistance of textiles to microbiological deterioration	BS EN 14119:2003 BS 6085:1992 Sections 3 & 5 (superseded)	C
Antibacterial assessment of diffusible agents	AATCC 147:2011	C	
FILLING MATERIALS			
Fillings and stuffings other than feather and/or down	Cleanliness	BS 1425:Part 1:1991	C
Feather and/or down	Cleanliness	BS 1425:Part 2:1991 (superseded)	C



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FIBRES, YARNS, FABRICS, COATED FABRICS, MADE-UP TEXTILES, LEATHER etc	<u>Composition and Chemical Tests and related Opinions and Interpretations</u>		
	Quantitative analysis of fibre mixtures	EU Directive 1007/2011, excluding Method 16.	C & E
	Quantitative analysis of: Binary fibre mixtures Ternary fibre mixtures	BS EN ISO 1833:2011	C & E
	Conductivity, pH, water-soluble matter, in aqueous extracts	BS 3266:1981 Section 8.3 (withdrawn)	C & E
		BS 5F 100:1991:Methods 43 to 45 and BS 6F 100:1998, Sections 4.2 to 4.4	C
	pH of aqueous extracts	BS EN ISO 3071:2006	C & E
	Nitrogen content	Documented In-House Method STS 36:2011	C
	Solvent extractable matter	BS 8459:2005	C & E
	Oil, fats and waxes in wool	BS 3582:1981 (withdrawn)	C & E
	Degree of cure measurements	Documented In-House Method 37	C
	Free and hydrolysed formaldehyde	BS EN ISO 14184:Part 1:2011	C
	Phthalates	BS EN 15777:2009 CPSC-CH-C1001-09.3:2010 using GC MS	C
	Wet ashing	BS 6648:1986	C
Determination of soluble hexavalent chromium	EN 17075:2007 EN 420 Annex B	C	



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FIBRES, YARNS, FABRICS, COATED FABRICS, MADE-UP TEXTILES, LEATHER etc (cont'd)	<u>Colour Fastness Tests and related Opinions and Interpretations</u>	<u>BS 1006:1990</u> <u>BS EN 20105:various</u> <u>BS EN ISO 105:various</u>	
	Artificial light - Xenon arc	B02:1999(withdrawn) B02:2013	E & D
	Weathering	B04:1997	E
	Washing and laundering	C01-C05 (superseded) C10:2007	E
	Domestic and commercial laundering	C06:2010, C08:2010	E
	Dry cleaning	D01:1995 (withdrawn) D01:2010	E
	Rubbing with organic solvents	D02:1996	C, D & E
	Water	E01:1996 (withdrawn) E01:2010(withdrawn) E01:2013	C, D & E
	Sea water	E02:1996(withdrawn) E02:2013	C, D & E
	Chlorinated water	E03:1997 (withdrawn) E03:2010	C
	Perspiration	E04:1996 (withdrawn) E04: 2009 (withdrawn) E04:2013	C & E
	Spotting (acid and alkali)	E05:1997 (withdrawn):2006 E06:1997 (withdrawn):2006	C
	Spotting (water)	E07:1997 (withdrawn) E07:2010	C & E
	Colour and colour difference	J01-J03:1997, A05:1996	E
	Bleaching agencies	N01-N04:1995	C
Rubbing	X12:2002	C, D & E	



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FIBRES	<u>Physical Tests and related Opinions and Interpretations</u>		
	Strength	BSENISO 5079:1996	E
	Length	ISO 6989:1981	E
	Diameter	BS 2043:1968 ISO 137:1975	D & E
YARNS	<u>Physical Tests and related Opinions and Interpretations</u>		
	Strength of yarn from packages	BS EN ISO 2062:2009	E
	Linear density of yarn from packages	BS EN ISO 2060:1995	E
	Twist of yarn	BS EN ISO 2061:2010	E
	Twist of yarn (re-twist method)	ASTM D1422:1992	E
	Levelness	IWTO-18-00	E
FIBRES, YARNS, FABRICS, COATED FABRICS, MADE-UP TEXTILES, LEATHER etc	<u>Physical Tests and related Opinions and Interpretations</u>		
	Width	BS EN ISO 2286-1:1998 BS 1930:1990 (withdrawn) BS EN 1773:1997 BS ISO 22198:2006	E
	Mass per unit area	BS EN ISO 2286-2:1998 BS 2471:1978 (withdrawn) BS EN 12127:1998 BS 6F 100:1998, Section 3.2	E



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FIBRES, YARNS, FABRICS, COATED FABRICS, MADE-UP TEXTILES, LEATHER etc (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	Thickness	BS EN ISO 2286-3:1998 BS 2544:1987 (withdrawn) BS EN ISO 5084:1997	E
	Threads per unit length	BS EN 1049/2 :1994, BS 6F 100:1998, Section 3.1	E
	Yarn crimp from fabric	BS ISO 7211/3:1984	E
	Yarn twist from fabric	BS ISO 7211/4:1984	E
	Yarn count from fabric	BS ISO 7211/5:1984	E
	Constructional Properties of Knitted Fabrics:	BS 5441:Sections 2 and 3:1988 BS EN 14970:2006 BS EN 14971:2006	E
	Tensile strength and elongation	BS EN ISO 1421:1998 BS EN 29073-3:1992 BS 2576:1986 (withdrawn) ISO 5081:1977 BS EN ISO 13934:Pt 1:1999 BS EN ISO 13934 Pt1:2013 BS 6F 100:1998, Section 3.3	E
	Grab strength	ISO 5082:1982 (withdrawn) BS EN ISO 13934:Pt 2:1999 BS EN ISO 13934 Pt2 :2014	E
	Tear strength (Wing Rip)	BS EN ISO 4674-1:2003 BS 4303:1968 (withdrawn) BS EN ISO 13937:Part 3:2000 (electronic)	E
	Tear strength (Tongue Tear)	BS 6F 100:1998, Section 3.5.1 BS EN ISO 13937:Part 4:2000 (electronic)	E
Tear strength (Trousers Tear)	BS EN ISO 13937:Part 2:2000 (electronic)	E	
Seam tensile properties: Strip method Grab method	BS EN 13935:Part 1:1999 BS EN 13935:Part 2:1999	E	



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FIBRES, YARNS, FABRICS, COATED FABRICS, MADE-UP TEXTILES, LEATHER etc (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	Seam slippage	BS 3320:1988 (withdrawn) BS EN ISO 13936-1:2004 BS 2543:Annex A:1995 (withdrawn) BS EN ISO 13936-2:2004	E
	Bursting strength	BS 4768:1972 (withdrawn) BS EN ISO 13938:Part 1:1999	E
	Abrasion resistance	BS 5690:1991 (withdrawn) BS EN ISO 12947:Pts 1, 2, 3 and 4:1999 BS EN 14465:Annex A:2003	E
	Pilling	BS 5811:1986(withdrawn) BS EN ISO 12945:Pt 1:2001	E
	Bending length and flexural rigidity	BS 3356:1990	E
FABRICS	<u>Physical Tests and related Opinions and Interpretations</u>		
	Drape	BS 5058:1973	E
	Crease recovery	BS EN 22313:1992	E
	Spray rating	BS EN 24920:1992 BS EN ISO 4920:2012	E
	Shower test	BS 5066:1974	E
	Limiting oxygen index	BS EN ISO 4589-2:1999	C
	Low temperature performance	BS 3424-8-Method 10A:1983	A
Oil repellency rating	AATCC 118:2012 BS EN ISO 14419:2010	C	
UPHOLSTERY	Specifications for upholstery fabrics	BS 2543:1995 (excludes soiling) (withdrawn) BS 2543:2004	E



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FIBRES, YARNS, FABRICS, COATED FABRICS, MADE-UP TEXTILES, LEATHER etc	<u>Stability Tests and related Opinions and Interpretations</u>		
	Method of preparation	BS EN ISO 3759:2011 BS 4931:1986 (withdrawn)	E
	Determination of dimensional change	BS EN 25077:1994 (withdrawn), BS EN ISO5077:2008	E
	Washing	BS 1955:1981 (withdrawn) BS EN 26330:1994(withdrawn) ISO 6330:1984 BS EN ISO 6330:2012	E
	Cold water immersion	BS 4736:1985 ISO 7771:1985 BS 6F 100:1998, Section 3.6	E
	Free steam	BS 4323:1979 ISO 3005:1978	E
PROTECTIVE CLOTHING FABRICS	Surface and interfacial tension of solutions of surface active agent	ASTM D 1331-89	C
	Resistance to penetration by synthetic blood	ASTM F 1670-07	C
	Resistance to blood borne pathogens using Phi-X174 bacteriophage penetration	ASTM F 1671-07	C
TEXTILE FLOORCOVERINGS	<u>Colour Fastness Tests and related Opinions and Interpretations</u>		
	Shampooing	BS 1006: UK-TB:1990	C & D
	Salt	BS 1006: UK-TI:1990	D
	Water	BS 1006: UK-TJ:1990	D



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FLEXIBLE SHEETS FOR WATERPROOFING	UV ageing/irradiation	BS EN 1297:2004 as modified by BS EN 13859-1:2010 (Annex C) and EN 13859-2:2010, Annex C BS EN ISO 4892-3:2006	C
TOYS, TOYS MATERIAL, including CHILDREN'S JEWELLERY	<u>Chemical Tests</u>		
	Organic contaminants Colourants Flame retardants Primary Aromatic Amines (soft filled toys only)	BS EN 71-9:2005 + A1:2007 BS EN 71-10:2005 BS EN 71-11:2005	C
	Specification for migration of certain elements - toxicity	BS EN 71-3:1995	C
	Preparation of dried paint samples by hot plate or microwave digestion for subsequent lead analysis	In-House Method STL/SOP 005 based on ASTM E-1645-01(2007)	C
	Determination of total lead content	In-House Method STL/SOP 005 based on ASTM E-1613-04 to meet the requirements of 16 CFR 1303:2005 CPSC-CH-E1001-08 using ICP (AES)	C
Total Lead in Surface Coatings	IHM STL/SOP/005 to implement CPSC-CH-E1003-09.1:2010 to meet the requirements of 16CFR1303 and CPSIA section 101:2007; Using acid digestion and ICP(MS) or ICP(OES).	C	
Total lead in metal products	IHM STL/SOP/005 to implement CPSC-CH-E1001-08.1 & E1001-08.2:2012 to meet the requirements of CPSIA section 101:2007; Using acid digestion and ICP(MS) or ICP(OES).	C	



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TOYS, TOYS MATERIAL including CHILDREN'S JEWELLERY (cont'd)	<u>Chemical Tests</u> (cont'd) Total Lead in non-metallics (excluding ceramics)	IHM STL/SOP/005 to implement CPSC-CH-E1002-08.1 & E1002-08.2:2012 to meet the requirements of CPSIA section 101:2007; Using acid digestion and ICP(MS) or ICP(OES)	C
PLASTICS - semi-crystalline polymer and textiles	Determination of melting behaviour - capillary tube method	BS EN ISO 3146:2000 EN ISO 3146:1997/ BS 2782:Pt 1:Method 25A:1991	C
FABRICS	<u>Physical Tests and related Opinions and Interpretations</u> <u>Textile Fabrics:</u> Abrasion (Martindale) Bursting strength Dimensional stability (immersion in water) Dimensional stability (methods of preparation) Dimensional stability (procedure and repeatability) Dimensional stability (washing)	BS 5690:1991(1997) (withdrawn) BS EN ISO 12947:Parts 1-4: 1999 ISO 2960:1974 (withdrawn) BS EN ISO 13938:Part 1:1999 BS 4736:1985(1996) ISO 7771:1985 BS 6F 100:1998, Section 3.6 BS 4931:1986 (withdrawn) BS EN ISO 3759:1995 (withdrawn) BS EN ISO 3759:2008 ISO 5077:1994 (withdrawn) BS EN 25077:1994 (withdrawn) BS EN ISO 5077:2008 BS 4923:1980 (withdrawn) BS EN ISO 6330:2012 BS EN 26330:1994 (withdrawn)	A A A A A



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FABRICS (cont'd)	<u>Physical Tests and related Opinions and Interpretations (cont'd)</u> <u>Textile Fabrics: (cont'd)</u>		
	Fabric width	BS 1930:1990 (withdrawn) BS EN 1773:1997	A
	Mass per unit area	BS 2471:1978(1997) BS EN 12127:1998 BS 6F 100:1998, Section 3.2	A
	Stiffness	BS 3356:1990	A
	Tear strength (BS 5F 100)	BS 6F 100:1998, Section 3.5	A
	Tear strength (Elmendorf)	ASTM D1424:2009 BS EN ISO 13937-1:2000	A
	Tear strength (Trouser Tear)	BS EN ISO 13937:Part 2:2000 ⁺	A
	Tear strength (Tongue Tear)	BS EN ISO 13937:Part 4:2000 ⁺	A
	Tear strength (Wing Rip)	BS 4303:1968(1995) (withdrawn) BS EN ISO 13937:Part 3:2000 ⁺ (⁺ indicates electronic only)	A
	Tensile strength and elongation	BS 2576:1986(1995) (withdrawn) BS 6F 100:1998, Section 3.3 ISO 5081:1977 (withdrawn) ISO 5082:1982 (withdrawn) BS EN ISO 13934:Part 1:1999 BS EN ISO 13934: 2:1999	A
	Thickness of fabric	BS 2544:1987 (withdrawn) BS EN ISO 5084:1997	A
	Washing and drying	BS 4923:1980 BS 5651:1989(1997) BS EN ISO 6330:2012 BS EN 26330:1994(withdrawn) BS EN ISO 10528:1995 BS EN ISO 12138:1997	A



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FABRICS (cont'd)	<u>Physical Tests and related Opinions and Interpretations (cont'd)</u>		
	<u>Woven Fabrics</u>		
	Construction	BS 2861:1984(1996)	A
	Threads per unit length	BS 2862:1984(1990) (withdrawn) BS 6F 100:1998, Section 3.1 BS EN 1049:Part 2:1994	A
	<u>Non-Woven Fabrics</u>		
	Mass/unit area	ISO 9073-1:1989	A
	Thickness	ISO 9073-2:1995	A
	Tensile strength and elongation	ISO 9073-3:1989	A
Tear resistance	ISO 9073-4:1997	A	
PROTECTIVE CLOTHING	<u>Barrier Properties</u>		
	Air permeability	BS 5636:1990 (withdrawn) BS EN ISO 9237:1995	A
	Airborne linting propensity	BS 6909:1988(1994)	A
	Resistance of fabrics to an artificial shower	BS 5066:1974(1994)	A
	Resistance to water penetration (hydrostatic head) - textile fabrics	ISO 811:1981 BS EN 20811:1992(1996)	A
	Thermal resistance or conductivity	BS 4745:1990(1995) ISO 5085:Part 1:1989 BS 4745:2005:Procedure 10.2 and 10.3	A
	Spray rating	BS EN 24920:1992(1996) ISO 4920:2012	A



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PROTECTIVE CLOTHING (cont'd)	<u>Barrier Properties</u> (cont'd)		
	Water repellency (Bundesmann)	BS Handbook 11:1974 BS 6F 100:1998, Section 3.8 BS 29865:1993 ISO 9865:1991	A
	Measurement of water vapour permeability index	BS 7209:1990(1997): Appendix B	A
	<u>Coated Fabrics</u>	<u>BS 3424</u>	
	Conditioning	BS EN ISO 2231:1995 BS 3424:Part 2:1992	A
	Abrasion (Martindale)	BS 3424:Part 24:Method 27A Modes A and B, 1990	A
	Coating adhesion	BS EN ISO 2411:2000	A
	Coating Adhesion	BS 3424:Part 7:Method 9:1982 (1996) (withdrawn)	A
	Blocking test	ISO 5978:1990 BS 3424:Part 11:Method 13: 1982 BS EN 25978:1993	A
	Breaking load and extension	BS 3424:Part 4:Method 6:1982 (1996) (withdrawn) ISO 1421:1998	A
	Bursting strength	BS 3424:Part 6:Method 8:1982 (1996) (withdrawn) ISO 3303:1990	A
	Crumple flex	BS 3424:Part 9:Method 11C: 1996 BS EN ISO 7854:1997	A
	Flexing resistance (Schildknecht)	BS EN ISO 7854: Method B: 1997 BS 3424: Part 9:Method B 1996	A
Surface drag	BS 3424:Part 10:Method 12B:1987(1996)	A	



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PROTECTIVE CLOTHING (cont'd)	<u>Coated Fabrics</u> (cont'd)	<u>BS 3424</u> (cont'd)	
	Tear strength	BS 3424:Part 5:Method 7:1982 (1996) ISO 4674:1977 (withdrawn) BS EN ISO 4674:Part 2:1998 BS EN ISO 4674-1:2003	A
	Tear strength (Trousers Tear)	BS EN ISO 13937:Part 2:2000 (electronic only)	A
	Thickness	ISO 4648:1991 (withdrawn) BS ISO 23529:2010 ISO 2286:Part 3:1998 BS EN 22286:1994 (withdrawn) Federal Test Method Standard 191 Section 5030-2	A
	Width: mass and length	BS EN 22286:1994 (withdrawn)	A
	Width	BS EN ISO 2286:Part 1:1998	A
	Total mass/coating mass/substrate mass	BS EN ISO 2286:Part 2:1998	A
	Air permeability	BS 5636:1990 (withdrawn) BS EN ISO 9237:1995	A
	Resistance of fabrics to an artificial shower	BS 5066:1974(1993)	A
	Resistance to water penetration (hydrostatic head) - coated fabrics	BS 3424:Part 26:Methods 29A and 29C:1990	A
Thermal resistance or conductivity	BS 4745:1990(1995) (withdrawn) ISO 5085:Part 1:1989 BS 4745:2005:Procedure 10.2 and 10.3	A	
Spray rating	BS EN 24920:1992(1996) ISO 4920:2012	A	



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PROTECTIVE CLOTHING (cont'd)	<u>Coated Fabrics</u> (cont'd)	<u>BS 3424</u> (cont'd)	
	Water repellency (Bundesmann)	BS Handbook 11:1974 BS 6F 100:1998, Section 3.8 BS EN 29865:1993 ISO 9865:1991	A
	Measurement of water vapour permeability index	BS 7209:1990(1997): Appendix B BS 3424:Part 34:Method 37: 1992	A
	<u>Physical Tests and related Opinions and Interpretations</u>		
	Abrasion (Martindale)	BS 5690:1991(1997) (withdrawn) BS EN ISO 12947:Parts 1-4: 1999	A
	Bursting strength	BS 4768:1972(1997) (withdrawn) BS EN ISO 13938:Part 1:1999	A
	Dimensional stability (dry heat)	BS 1771:Part 2:1984 (withdrawn)	A
	Dimensional stability (immersion in water)	BS 4736:1985(1996) BS 6F 100:1998, Section 3.6	A
	Dimensional stability (methods of preparation)	BS 4931:1986 (withdrawn) BS EN ISO 3759:1995 (withdrawn) BS EN ISO 3759: 2008	A
	Dimensional stability (procedure and repeatability)	BS 5807:1987 (withdrawn) BS EN 25077:1994 (withdrawn) BS EN ISO 5077:2008 ISO 5077:1994 (withdrawn)	A
Dimensional stability (washing)	BS 4923:1980 (withdrawn) BS EN ISO 6330:2012 BS EN 26330:1994 (withdrawn)		



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PROTECTIVE CLOTHING (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	Mass per unit area	BS 2471:1978(1997) BS 6F 100:1998, Section 3.2	A
	Stiffness	BS 3356:1990	A
	Tear strength	BS 6F 100:1998, Section 3.5	A
	Tear strength (Elmendorf)	ASTM D1424:2009 BS EN ISO 13937-1:2000	A
	Tear strength (Trousers Tear)	BS EN ISO 13937:Part 2:2000 [†]	A
	Tear strength (Tongue Tear)	BS EN ISO 13937:Part 4:2000 [†]	A
	Tear strength (Wing Rip)	BS 4303:1968(1995) (withdrawn) BS EN ISO 13937:Part 3:2000 [†]	A
	Tensile strength and elongation	BS 2576:1986(1995) (withdrawn) BS 6F 100:1998, Section 3.3 ISO 5081:1977 (withdrawn) ISO 5082:1982 (withdrawn) BS EN ISO 13935:Part 1; 1999 BS EN ISO 13935: Part 2:1999	A
	Thickness of fabric	BS 2544:1987 (withdrawn) BS EN ISO 5084:1997 ([†] indicates electronic only)	
	<u>Woven Fabrics</u>		
	Construction	BS 2861:1984(1996)	A
	Threads per unit length in woven fabric	BS 2862:1984(1990) (withdrawn) BS 6F 100:1998, Section 3.1 BS EN 1049:Part 2:1994	A
	Air permeability	BS 5636:1990 (withdrawn) BS EN ISO 9237: 1995	A



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PROTECTIVE CLOTHING (cont'd)	<u>Woven Fabrics</u> (cont'd)		
	Resistance of fabrics to an artificial shower	BS 5066:1974(1993)	A
	Resistance to water penetration (hydrostatic head) - textile fabrics	BS EN 20811:1992(1996) ISO 811:1981	A
	Spray rating	BS EN 24920:1992(1996) ISO 4920:2012	A
	Water repellency (Bundesmann)	BS Handbook 11:1974 BS 6F 100:1998, Section 3.8 BS EN 29865:1993 ISO 9865:1991	A
	Measurement of water vapour permeability index	BS 7209:1990(1997): Appendix B BS 3424:Part 34:Method 37	A
	Sun protection clothing	AS/NZS 4399:1996	A
	Children's Clothing - Requirements for protection against UV radiation	BS 7949:1999 (withdrawn) BS EN 13758-2:2003	A
	Thermal and water vapour resistance	BS EN 31092:1994 ISO 11092:1993	A
	Abrasion resistance	BS EN 530:1995 BS EN 530:2010	A
	Requirements for protective clothing against foul weather	BS EN 343:2003+A1:2007	A
	<u>High Visibility Warning Clothing</u>		
	Design/background area	Shirley Method 134:1998	A
Chromaticity background material	BS EN 471:1994(2003) + A1 2007 BS EN 1150:1999 Railway Group Standard, GO/RT 3279:2008	A	
Puncture resistance	BS EN 863:1996	A	



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PROTECTIVE CLOTHING (cont'd)	<u>High Visibility Warning Clothing</u> (cont'd) Thickness	BS ISO 23529: 2010 ISO 4648:1991 (withdrawn) BS EN ISO 2286-3:1998 BS EN 22286:1994 (withdrawn) Federal Test Method Standard 191 Section 5030-2	A
GLOVES	Gloved finger dexterity	EN 420:1994 (withdrawn) EN 420:2003 +A1 2009	A
	<u>Mechanical Risk</u> Puncture resistance	BS EN 388:1994 BS EN 388:2003 DIN 4841:Part 1:1981	A
	Tear resistance	BS EN 388:2003	A
	Thickness	ISO 4648:1991 (withdrawn) BS EN ISO 2286-3:1998 FTMS Standard 191 Section 5030-2	A
GEOTEXTILES AND GEOTEXTILE RELATED PRODUCTS	<u>Physical Tests and related Opinions and Interpretations</u> <u>Geotextiles and Related Products</u>		
	Breaking load and extension (grab method)	ASTM D4632-08(2013) AS 2001.2.3.2	A
	Water-flow, normal to the plane In-plane water flow capacity	BS EN ISO 11058:2010 BS 6906:Part 7:1990(1995) (withdrawn) BS EN ISO 12958:2010	A A



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GEOTEXTILES AND GEOTEXTILE RELATED PRODUCTS (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	<u>Geotextiles and related products</u> (cont'd)		
	Mass per unit area	BS EN 965:1995 (superseded) ASTM D5261-92(2010) BS EN ISO 9864:2005	A
	Puncture resistance (CBR puncture test)	BS 6906:Part 4:1989 (withdrawn) DIN 54307:1982 BS EN ISO 12236:2006 ASTM D6241-04 (2009)	A
	Resistance to penetration by Water	BS EN 13562:2000 AS3706.9:2012	
	Resistance to perforation (cone drop test)	BS 6906:Part 6:1990 (withdrawn) BS EN 918:1996 (superseded withdrawn) BS EN ISO 13433:2006	A
	Index puncture resistance	ASTM D4833-07(2013)	A
	Short term compression	ASTM D1621-10 BS EN ISO 25619-2:2008	A
	Sampling and preparation of test specimens	BS EN 963:1995 BS EN ISO 9862:2005	A
	Tensile properties using a wide width strip	ASTM D4595-2011 BS 6906:Part 1:1987(1995)	A
	Wide-width tensile test	BS EN ISO 10319:2008	A
	Tensile test for joints/seams by wide-width method	BS EN ISO 10321:2008	A
	Peel strength (geocomposites)	ASTM D4632-08(2013)	A
Strength of internal structural junctions	BS EN ISO 13426-2:2005	A	



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GEOTEXTILES AND GEOTEXTILE RELATED PRODUCTS (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	<u>Geotextiles and related products</u> (cont'd)		
	Thickness at specified pressures	ISO 9863:Part 2:1996 BS EN 964-1:1995 (superseded) ASTM D5199:2012 BS EN ISO 9863-1:2005	A
	Trapezoid tear strength	ASTM D4533-11	A
	Abrasion damage simulation	BS EN ISO 13427:1998	A
	Water flow normal to the plane of a geotextile under a constant head	BS 6906:Part 3:1989(1995) (withdrawn)	A
	Pore/Opening size by dry sieving	BS 6906:Part 2:1989(1995) (withdrawn) AS 3706.7:2003	A
	by wet sieving	BS EN ISO 12956:2010	
	Methodology for cylinder testing of protectors for geomembranes	Environment Agency - April 2006 Environment Agency 2010	A
	Determination of long term protection efficiency of geotextiles in contact with geosynthetic barriers	EN ISO 13719:2002	A
	General tests for evaluation following durability testing	EN 12226:2012	A
	Resistance to acid and alkaline liquids (Screening method)	EN 14030:2001	A
Resistance to oxidation (Screening methods)	EN ISO 13438:2004 Methods A1, A2, B1 & B2	A	
Microbiological resistance by soil burial	EN 12225:2000	A	



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GEOTEXTILES AND GEOTEXTILE RELATED PRODUCTS (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	<u>Geotextiles and related products</u> (cont'd)		
GEOTEXTILES AND GEOTEXTILE RELATED PRODUCTS (cont'd)	Determination of the resistance to weathering	BS EN 12224:2000	A
	Screening for determining the resistance by hydrolysis in water	BS EN 12447:2001	A
	Geotextiles – Tensile Properties	AS 3706.2-2012	A
	Geotextiles –Tearing Strength	AS 3706.3-2012	A
	Geotextiles – California bearing ratio (CBR)	AS 3706.4-2012	A
	Geotextiles –Puncture resistance (Drop cone)	AS 3706.5-2000	A
	Static Thickness	AS 2001.2.15-1989	A
Mass per unit area	AS 2001.2.13-1997	A	
Soil moisture content	AS 1289.2.1.1-2005	A	
GEOMEMBRANES	<u>Physical Tests and related Opinions and Interpretations</u>		
	<u>Oxidative Induction Time</u>	ASTM D3895-07 using Differential Scanning Calorimeter BS EN ISO 11357-6:2013	A A
	Melt flow rate of thermoplastics by extrusion plastomer	ASTM D1238-2013	A



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GEOMEMBRANES (cont'd)	<u>Physical Tests and related Opinions and Interpretations (cont'd)</u>		
	Tensile properties of plastics	ANSI/NSF Modification Standard 54:1993 - Annex A, Part 8, using Type 4 Die based on ASTM D638:1996	A
		ASTM D6693-04 (2010) EN ISO 527-1:1996 EN ISO 527-3:1995(1998)	A
	Determination of 2% secant modulus for polyethylene geomembranes	ASTM D5323-92(2011)	A
	Initial tear resistance of plastic film and sheeting	ASTM D1004-13	A
	Density of plastics	ASTM D1505-10	A
	Thickness of Geomembranes	ANSI/NSF Modification Standard 54:1993, Annex A, Part 1, based on ASTM D751-06 ASTM D5199:2012 ASTM D1593-13 ASTM D5994-2010	A
	Thickness	BS EN 964-1:1995 (superseded)	A
	Asperity Measurement	GRI GM12 ASTM D7466-2010	A
	Carbon black content	ASTM D1603-12	A
	Carbon black dispersion	ASTM D5596-03 (2009)	A
Puncture resistance	Federal Test Method Standard 101C, Method 2065:1982	A	



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GEOMEMBRANES (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	Puncture resistance (CBR puncture test)	BS 6906:Part 4:1989 (withdrawn) BS EN ISO 12236:2006 DIN 54307:1982 ASTM D6241-04 (2009)	A
	Index puncture resistance	ASTM D4833-07(2013)	A
	Peel and shear strength of bonded seams	ANSI/NSF Modification Standard 54: 1993, Appendix A, Part 3 and Part 5, based on ASTM D413:1982(1993) and ASTM D4437-99 ASTM D6392-12	A
	Stress cracking using notched constant tensile load	ASTM D5397-07(2012) BS EN 14576:2005	A
	Dimensional stability	ASTM D1204-08	A
	Water absorption	ASTM D570:1998(2010)	A
	Methodology for cylinder testing of protectors for geomembranes	Environment Agency - April 2006 Environment Agency 2011	A
BENTONITE CLAY	<u>Physical Tests and related Opinions and Interpretations</u>		
	Confined swell	GRI Test Method GCL-1	A
	Swell Index of Clay	USP NF XVII ASTM D5890-06	A A A
	Fluid loss	ASTM D5891-02(2009)	A
	Montmorillonite content (Methylene blue capacity)	API RP 131 VDG P69	A
Water absorption of bentonite	ASTM E946:1992	A	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
GEOSYNTHETIC CLAY LINERS	<u>Physical Tests and related Opinions and Interpretations</u>		
	Mass per unit area (GCL)	ISO 9864:1990 ASTM D5993-99(2009) BS EN 965:1995 (superseded) ASTM D5261-2010 BS EN 14196:2003	A
	Puncture resistance (CBR puncture test)	BS 6906:Part 4:1989 (withdrawn) BS EN ISO 12236:2006 DIN 54307:1982 ASTM D6241-04 (2009)	A
	Breaking load and extension (grab method)	ASTM D4632-08(2013)	A
	Moisture content (GCL)	ASTM D2216-2010	A
	Tensile properties using a wide width strip	ASTM D4595-2011 BS EN ISO 10319:2008 BS 6906:Part 1:1987(1995) (withdrawn)	A
	Tensile strength	ASTM D6768-04 (2009)	A
	Thickness at specified pressures	EN ISO 9863-1:2005 BS EN 964-1:1995 (superseded) ASTM D5199:2012	A
	Peel strength	ASTM D4632-08(2013) ASTM D6496-2009	A
	Strength of internal structural junctions	BS EN ISO 13426-2:2005	A
	Index puncture resistance	ASTM D4833- 07(2013)	A
	Index flux	ASTM D5887-09	A
Hydraulic conductivity	ASTM D5084-03 (GR1 GCL2)	A	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FLEXIBLE SHEETS FOR WATER PROOFING	<u>Physical Tests and related Opinions and Interpretations</u>		
	Thickness	BS EN 1849-2:2009	A
	Mass per unit area	BS EN 1849-2:2009	A
	Watertightness	BS EN 1928:2000, Method A BS EN 1928:2000, Method A modified by EN 13859-1:2010 EN 13859-2:2010	A
	Resistance to water penetration	BS EN 13111:2010	A
	Tensile properties	BS EN 12311-1:2000 BS EN 12311-1:2000 modified by EN 13859-1:2010 and EN 13859-2:2010	A
	Dimensional stability	BS EN 1107-2:2001	A
	Tear resistance (nail shank)	BS EN 12310-1:2000 BS EN 12310-1:2000 modified by EN 13859-1:2010 and EN 13859-2:2010	A
	Artificial ageing (elevated temperature)	BS EN 1296:2001 BS EN 1296:2001 modified by EN 13859-1:2010 and EN 13859-2:2010	A
Water vapour transmission	BS EN 1931:2000 BS EN ISO 12572:2001 BS 3177:1959	A	
LEATHER	<u>Physical Tests and related Opinions and Interpretations</u>		
	<u>Barrier Properties</u> Measurement of water vapour permeability index	BS 7209:1990(1997), Appendix B	A



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FABRICS: for curtains and drapes for protection against heat and flame	<u>Fire Testing and related Opinions and Interpretations</u> Flammability and related Opinions and Interpretations	BS 5438:1989 (2008) BS EN 532:1995 (withdrawn) BS EN ISO 6940:1995 (withdrawn) BS EN ISO 6940:2004 (2007) BS EN ISO 6941:1995 (withdrawn) BS EN ISO 6941:2003 BS 5867:Part 2:2008 BS EN 533:1997 (withdrawn) BS EN ISO 14116:2008 BS ISO 15025:2000 (withdrawn) BS EN ISO 15025:2002	B B B
TEXTILES USED in the CONSTRUCTION of MARQUEES and SIMILAR TEXTILE STRUCTURES	Flammability and related Opinions and Interpretations	BS 7837:1996 (2008)	B
PROTECTIVE CLOTHING and GLOVES	Burning behaviour Heat transfer (radiation) Heat transfer (flame)	BS EN 407:1994, Clause 6.3 (withdrawn) BS EN 407:2004, Clause 6.3 BS EN ISO 6942:2002 BS EN 367:1992 ISO 9151:1995	B B B



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PROTECTIVE CLOTHING and GLOVES (cont'd)	Heat transfer (contact heat)	BS EN 702:1995 (2007) ISO 12127:1996 (withdrawn) ISO 12127:2007	B
	Molten metal splash	BS EN 373:1993 (withdrawn) BS EN ISO 9185:2007	B
	Small splashes of molten metal	BS EN 348:1992 ISO 9150:1988	B
	Heat resistance	BS ISO 17493:2000	B
	Protection against liquid chemicals	BS EN 368:1993 (withdrawn) BS EN ISO 6530: 2005 ISO 6530:1990 (withdrawn)	B
	Mechanical Risk Test (for automobile drivers)	FIA Standard No 8856:2000 Appendix II	B
	Oven Gloves	BS 6526:1998 (2007)	B
TEXTILES	Dimensional change	BS EN 25077:1994 (withdrawn) ISO 5077:1984 (withdrawn) ISO 3759:1984 (withdrawn) ISO 3759: 2007 BS EN ISO 5077:2008	B
	Washing	BS EN ISO 10528:1995 BS EN 26330:1994 (withdrawn) ISO 6330:1984 (withdrawn) BS EN ISO 6330:2012	B
	Water soak prior to flammability testing	BS 5651:1989 Clause 3	B
FABRICS and MADE-UP TEXTILES	<u>Electrostatic Tests and related Opinions and Interpretations</u>		
	Surface resistivity	BS 6524:1984	D



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PROTECTIVE CLOTHING	<u>Electrostatic properties</u>		
	Surface resistivity Electrical resistance through material	BS EN 1149:Part 1:1996 BS EN 1149:Part 2:1997	D
	Charge decay	BS EN 1149:Part 3:2004	D
	Design Requirements	BS EN 1149:Part 5:2008	D
TEXTILE FLOOR COVERINGS, UNDERLAYS AND BACKINGS	<u>Physical Tests and related Opinions and Interpretations</u>		
	Carpet Construction	BS 4051:1987 ISO 1765:1986 BS 4223:1989 BS ISO 1766:1999 ISO 1763:1986 BS ISO 8543:1998	D
	Static loading	BS 4939:1987 ISO 3416:1986	D
	Dynamic loading	BS ISO 2094:1999	D
	Thickness, compression and recovery	BS 4098:1975	D
	Tuft withdrawal	BS 5229:1975(2009) WNZ TM 202:1994	D
	Fibre Integrity test	WNZ TM 283:1997	D
	Pilling (Martindale)	Documented In-House Method (E2-14)	D
	Fibre shedding	Documented In-House Method (E2-15)	D
Lisson tretrad	BS EN 1963:2007	D	



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TEXTILE FLOOR COVERINGS, UNDERLAYS AND BACKINGS (cont'd)	<u>Physical Tests and related Opinions and Interpretations (cont'd)</u>		
	<u>Appearance Retention:</u>		
	Tumbler test - Hexapod	BS 659:Part2:1986(Withdrawn) ISO 10361:2000 WNZ TM 247:1997 BS EN ISO 11378:Part 2:2001 BS ISO 10361:2000	D
	- Vetterman		
	Castor chair	BS EN 985:2001	D
	Edge frying (Vetterman) Assessment	BS EN 1814:1998 BS EN 1471:1997 BS 6659:Part 1:1986 (withdrawn) ISO 9405:2001 WNZ TM 251:1997	
	Size and squareness of carpet tiles	BS 5921:1980	D
	Side length, squareness and straightness of tiles	BS EN 994:1996	D
	<u>Dimensional Stability:</u>		
	Heat/Water (Aachen)	ISO 2551:1981	D
	Heat/Water (Carpet Tiles)	BS EN 986:2005	D
	Heat (resilient Floor Coverings)	BS EN 434:1994	D
	Tensile strength	BS 2576:1986 (withdrawn) BS EN ISO 13934-1:1999	D
Delamination	BS EN ISO 11857:2002	D	



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TEXTILE FLOOR COVERINGS, UNDERLAYS AND BACKINGS (cont'd)	<u>Dimensional Stability:</u> (cont'd)		
	Mass of use surface	BS EN 984:2001	D
	Classification of needled floor coverings	BS EN 1470:1998	D
	Classification of pile carpets	BS EN 1307:2008	D
	Classification of flat wovens	BS EN 15114:2006	D
	Classification of needled floor coverings (without pile)	BS EN 1470:2008	D
	Classification of needled pile floor coverings	BS EN 13297:2007	D
	Classification of underlays	BS 5808:1991	D
TEXTILE FLOOR COVERINGS & CONSTRUCTION PRODUCTS	<u>Electrostatic Tests and related Opinions and Interpretations</u>		
	Electrical resistance	BS 6654:1985 IBM Electrostatic Tests:1974 ICL Electrostatic Tests:1980 BS ISO 10965:1998	D
	Body voltage	ISO 6356:2000 BS EN 1815:1998	D
TEXTILE FLOOR COVERINGS & CONSTRUCTION PRODUCTS	<u>Flammability Tests and related Opinions and Interpretations</u>		
	Ignitability and burning behaviour	BS 6307:1982 ISO 6925:1982 BS 4790:1987 BS 5287:1988	D
	Fire propagation and flame spread	ASNI/ASTM E648-09a	D



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TEXTILE FLOOR COVERINGS & CONSTRUCTION PRODUCTS	<u>Fire Testing and related Opinions and Interpretations</u>		
	Classification	BS EN 13501:Part 1:2002 BS EN 13501:Part 1:2007	D
	Flame spread	BS EN ISO 9239:Part 1:2002 BS EN ISO 9239:Part 1:2010	D
	Direct impingement - single flame source	BS EN ISO 11925:Part 2:2002 BS EN ISO 11925:Part 2:2010	D
	Single burn item	BS EN 13823:2002 BS EN 13823:2010	D
	Fire propagation	BS 476:Part 6:1989+A1:2009	D
	Flame spread	BS 476:Part 7:1987	D
TEXTILE FABRICS and FABRIC ASSEMBLIES	Water soak, washing, dry cleaning, etc	BS 5651:1978 BS 5651:1989(2002) BS EN ISO 10528:1995	D
UPHOLSTERED FURNITURE	<u>Fire Tests and related Opinions and Interpretations</u>		
	Ignitability and burning behaviour (including water soaking pre-treatments)	BS EN 1021-1:2006 BS EN 1021-2:2006 BS 7176:2007+A1:2011 BS 5852:2006 BS 5852:Part 1:1979 BS 5852:Part 2:1982	D
FABRICS	<u>Fire Tests and related Opinions and Interpretations</u>		
	Ignitability, flame spread	BS 5438:1989 (Amd 1990/1994) (1997) Test 2 BS EN ISO 6940:1995	D
	Curtains and Drapes	BS 5867:Part 2:2008 BS EN ISO 15025:2002	D



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BEDDING and BEDDING COMPOSITES	<u>Fire Tests and related Opinions and Interpretations</u>		
	Ignitability and burning behaviour	BS 6807:2006	D
	Ignitability of bed bases, etc	BS EN 597:Parts 1 and 2:1995	D
	Resistance to ignition	BS 7177:2008+A1:2011 BS 7175:1989(1994)	D
MARINE & AIRCRAFT	<u>Fire Tests and related Opinions and Interpretations</u>		
	Ignitability and burning behaviour	IMO FTP Code 2010 Pt8	D
	Ignitability, flame spread	IMO FTP Code 2010 Pt7	D
	Resistance to ignition	IMO FTP Code 2010 Pt9	D
	Lateral flame spread	IMO FTP Code 2010 Pt5	D
	Burning behaviour aircraft components	EASA CS.25.853, App F, Part 1 FAR/JAR 25 App F, Part 1	D
FABRICS FOR CAMPING TENTS	<u>Fire Tests and related Opinions and Interpretations</u>		
	Flammability	BS 7837:1996	D
END			