

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>1066</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Shirley Technologies Limited</h3> <p>Issue No: 045 Issue date: 25 January 2017</p>	
	<p>Wira House West Park Ring Road Leeds West Yorkshire LS16 6QL</p>	<p>Contact: Mr T Sagar Tel: +44 (0)161 869 1610 Fax: +44 (0)161 872 6492 E-Mail: tony.sagar@shirleytech.co.uk Website: www.shirleytech.co.uk</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address 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: clarissa.austin@bttg.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 - Fire Technology Services Unit 6 Wheel Forge Way Ashburton Park Ashburton Road West Trafford Park Manchester M17 1EH</p> <p>Local contact Mr C Dean Tel: +44 (0)161-876 4211 Fax: +44 (0)161-872 0294 Email: chris.dean@bttg.co.uk</p>	<p><u>Testing:</u> Textiles Protective Clothing Gloves</p>	B
<p>Address Unit 11 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 Wira House West Park Ring Road Leeds West Yorkshire LS16 6QL</p> <p>BTTG Shirley TLS</p>	<p>Local contact Tel: +44 (0)113-259 1999 Fax: +44 (0)113-278 0306 Email: info@bttg.co.uk</p> <p>Paul.doherty@bttg.co.uk Julia.bullers@shirleytech.co.uk Julia.bullers@shirleytech.co.uk</p>	<p>Testing: Fibres Yarns Fabrics Upholstery and furnishings Textiles, Made up textiles Textile floor coverings Furniture and furnishings Bedding and bedding composites Building materials Floor and wall coverings Impact absorbing playground surfaces Gymnasium equipment Tents</p> <p>D</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	JIS L 1902:2015 BS EN ISO 20743:2013 Section 8.1	C
	% reduction in colony counts (antimicrobial activity)	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 30:2013	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	D
Feather and/or down	Cleanliness	BS 1425:Part 2:1991 (superseded)	D



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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 Regulation 1007/2011, excluding Method 16.	C & D
	Quantitative analysis of: Binary fibre mixtures Ternary fibre mixtures	BS EN ISO 1833:2011	C & D
	Conductivity, pH, water-soluble matter, in aqueous extracts	BS 3266:1981 Section 8.3 (withdrawn)	C
		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 & D
	Nitrogen content	Documented In-House Method STS 36:2011	C
	Solvent extractable matter	BS 8459:2005	C & D
	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 ISO 14389:2014	C
		CPSC-CH-C1001-09.3:2010 using GC MS	
	Wet ashing	BS 6648:1986	C
Determination of soluble hexavalent chromium	EN 17075:2007 EN 420 Annex B BS EN ISO 17075:2007	C	



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FIBRES, YARNS, FABRICS, COATED FABRICS, MADE-UP TEXTILES, LEATHER etc	<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) B02:2014	D
	Washing and laundering	C01-C05 (superseded) C10:2007	D
	Domestic and commercial laundering	C06:2010, C08:2010	D
	Dry cleaning	D01:2010	D
	Rubbing with organic solvents	D02:1996	D
	Water	E01:2013	D
	Sea water	E02:2013	D
	Chlorinated water	E03:2010	D
	Perspiration	E04:2013	D
	Spotting (water)	E07:2010	D
	Colour and colour difference	J01-J03:2000 (2009), A05:1997	D
	Bleaching agencies	N01:1995	D
	Rubbing	X12:2002	D
FIBRES	<u>Physical Tests and related Opinions and Interpretations</u>		
	Strength	BSENISO 5079:1996	D
	Length	ISO 6989:1981	D
	Diameter	BS 2043:1968 ISO 137:1975	D



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YARNS	<u>Physical Tests and related Opinions and Interpretations</u>		
	Strength of yarn from packages	BS EN ISO 2062:2009	D
	Linear density of yarn from packages	BS EN ISO 2060:1995	D
	Twist of yarn	BS EN ISO 2061:2010	D
	Twist of yarn (re-twist method)	ASTM D1422:1992	D
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 EN 1773:1997 BS ISO 22198:2006	D
	Mass per unit area	BS EN ISO 2286-2:1998 BS EN 12127:1998 BS 6F 100:1998, Section 3.2	D
	Thickness	BS EN ISO 2286-3:1998 BS EN ISO 5084:1997	D
	Threads per unit length	BS EN 1049/2 :1994, BS 6F 100:1998, Section 3.1	D
	Yarn crimp from fabric	BS ISO 7211/3:1984	D
	Yarn twist from fabric	BS ISO 7211/4:1984	D
	Yarn count from fabric	BS ISO 7211/5:1984	D
	Constructional Properties of Knitted Fabrics:	BS 5441:Sections 2 and 3:1988 BS EN 14970:2006 BS EN 14971:2006	D
	Tensile strength and elongation	BS EN ISO 1421:1998 BS EN 29073-3:1992 BS EN ISO 13934 Pt1:2013 BS 6F 100:1998, Section 3.3	D
Grab strength	BS EN ISO 13934 Pt2 :2014	D	



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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)		
	Tear strength (Wing Rip)	BS EN ISO 4674-1:2003 BS EN ISO 13937:Part 3:2000 (electronic)	D
	Tear strength (Tongue Tear)	BS 6F 100:1998, Section 3.5.1 BS EN ISO 13937:Part 4:2000 (electronic)	D
	Tear strength (Trousers Tear)	BS EN ISO 13937:Part 2:2000 (electronic)	D
	Seam tensile properties: Strip method Grab method	BS EN 13935:Part 1:2014 BS EN 13935:Part 2:2014	D
	Seam slippage	BS EN ISO 13936-1:2004 BS EN ISO 13936-2:2004	D
	Bursting strength	BS EN ISO 13938:Part 1:1999	D
	Abrasion resistance	BS EN ISO 12947:Pts 1, 2, 3 and 4:1999 BS EN 14465:Annex A:2003	D
Pilling	BS EN ISO 12945:Pt 1:2001	D	
FABRICS	<u>Physical Tests and related Opinions and Interpretations</u> Oil repellency rating	AATCC 118:2012 BS EN ISO 14419:2010	D
UPHOLSTERY	Specifications for upholstery fabrics	BS 2543:2004	D



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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	D
	Determination of dimensional change	BS EN ISO5077:2008	D
	Washing	ISO 6330:1984 BS EN ISO 6330:2012	D
	Cold water immersion	BS 4736:1985 ISO 7771:1985 BS 6F 100:1998, Section 3.6	D
	Free steam	BS 4323:1979 ISO 3005:1978	D
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 1670-2014 BS ISO 16603:2004	C
	Resistance to blood borne pathogens using Phi-X174 bacteriophage penetration	ASTM F 1671-2013 BS ISO 16604:2004	C
TEXTILE FLOORCOVERINGS	<u>Colour Fastness Tests and related Opinions and Interpretations</u>		
	Shampooing	BS 1006: UK-TB:1990	D
	Salt	BS 1006: UK-TI:1990	D
	Water	BS 1006: UK-TJ:1990	D
FLEXIBLE SHEETS FOR WATERPROOFING	UV ageing/irradiation	BS EN 1297:2004 as modified by BS EN 13859-1:2014 (Annex C) and EN 13859-2:2010, Annex C BS EN ISO 4892-3:2016	A & C



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TOYS, TOYS MATERIAL, including CHILDREN'S JEWELLERY	<u>Chemical Tests</u>		
	Organic Chemical Compounds	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 (withdrawn) BS EN 71-3-2013+A1:2014	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	
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	



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PLASTICS - semi-crystalline polymer and textiles	Determination of melting behaviour - capillary tube method	BS EN ISO 3146:2000 Method A	C
FABRICS	<u>Physical Tests and related Opinions and Interpretations</u> <u>Textile Fabrics:</u> Abrasion (Martindale) Dimensional stability (immersion in water) Dimensional stability (methods of preparation) Dimensional stability (procedure and repeatability) Dimensional stability (washing) Fabric width Mass per unit area Stiffness Tear strength (BS 5F 100) Tear strength (Elmendorf) Tear strength (Trouser Tear)	 BS 5690:1991(1997) (withdrawn) BS EN ISO 12947:Parts 1-4: 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 3759:2011 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) BS 1930:1990 (withdrawn) BS EN 1773:1997 BS 2471:1978(1997) BS EN 12127:1998 BS 6F 100:1998, Section 3.2 BS 3356:1990 BS 6F 100:1998, Section 3.5 ASTM D1424:2009(2013) BS EN ISO 13937-1:2000 BS EN ISO 13937:Part 2:2000 ⁺	 A A A A A A A A A A A



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FABRICS (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	<u>Textile Fabrics:</u> (cont'd)		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 1:2014 BS EN ISO 13934: 2:2014	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)	A
	<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



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
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 BS EN ISO 4920:2012	A
	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	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
PROTECTIVE CLOTHING (cont'd)	<u>Barrier Properties</u> (cont'd)		
	<u>Coated Fabrics</u> (cont'd)	<u>BS 3424</u> (cont'd)	
	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) BS ISO 3303:2012	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
	Low Temperature Performance	BS 3424-8-Method 10A:1983	A
	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)	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	



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PROTECTIVE CLOTHING (cont'd)	<u>Coated Fabrics</u> (cont'd)	<u>BS 3424</u> (cont'd)	
	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 BS EN 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: 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	
Dimensional stability (immersion in water)	BS 4736:1985(1996) BS 6F 100:1998, Section 3.6	A	



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PROTECTIVE CLOTHING (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	Dimensional stability (methods of preparation)	BS 4931:1986 (withdrawn) BS EN ISO 3759:1995 (withdrawn) BS EN ISO 3759:2008 (withdrawn) BS EN ISO 3759: 2011	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)	A
	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(2013) 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 ⁺	A	



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PROTECTIVE CLOTHING (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	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(withdrawn) BS EN ISO 13935:Part 1:2014 BS EN ISO 13935:Part 2:1999 (withdrawn) BS EN ISO 13935:Part 2:2014	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
	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 BS EN ISO 4920:2012	A



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PROTECTIVE CLOTHING (cont'd)	<u>Woven Fabrics</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	A
	Thermal and water vapour resistance	BS EN 31092:1993+A1:2012 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 ISO 20471:2013 BS EN 1150:1999 Railway Group Standard, GO/RT 3279:2013	A
	Puncture resistance	BS EN 863:1996	A
Thickness	BS ISO 23529: 2010 ISO 4648:1991 (withdrawn) BS EN ISO 2286-3:1998 BS EN 22286:1994 (withdrawn)	A	



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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	A
	Tear resistance	BS EN 388:2003	A
	Blade Cut	BS EN 388:2003	A
	Thickness	ISO 4648:1991 (withdrawn) BS EN ISO 2286-3:1998	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 (2015)	A
	Water-flow, normal to the plane	BS EN ISO 11058:2010	A
	In-plane water flow capacity	BS 6906:Part 7:1990(1995) (withdrawn) BS EN ISO 12958:2010	A
	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 (2014)	A	
	Resistance to penetration by Water	BS EN 13562:2000	



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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)		
	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 10319:2015	A
	Tensile test for joints/seams by wide-width method	BS EN ISO 10321:2008	A
	Peel strength (geocomposites)	ASTM D4632 (2015)	A
	Strength of internal structural junctions	BS EN ISO 13426-2:2005	A
	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 D4533-15	A
	Abrasion damage simulation	BS EN ISO 13427:2014	A
Water flow normal to the plane of a geotextile under a constant head	BS 6906:Part 3:1989(1995) (withdrawn)	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)		
	Pore/Opening size by dry sieving	BS 6906:Part 2:1989(1995) (withdrawn)	A
	by wet sieving	BS EN ISO 12956:2010	
	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 & C
	Determination of the resistance to weathering	BS EN 12224:2000	A & C
	Screening for determining the resistance by hydrolysis in water	BS EN 12447:2001 BS EN 13249:2014+A1:2015	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 3706.5-2014	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- Pore size distribution	AS 3706.7-2003	A
	Geotextiles- Permittivity, permeability and flow rate	AS 3706.9-2012	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
	Geotextiles- Grab strength	AS 2001.2.3.2	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 & C A
	Melt flow rate of thermoplastics by extrusion plastomer	ASTM D1238-2013	A
	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



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GEOMEMBRANES (cont'd)	<u>Physical Tests and related Opinions and Interpretations (cont'd)</u>		
	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
	Puncture resistance (CBR puncture test)	BS 6906:Part 4:1989 (withdrawn) BS EN ISO 12236:2006 DIN 54307:1982 ASTM D6241 (2014)	A
	Index puncture resistance	ASTM D4833-07(2013)	A
Determination of the pyramid puncture resistance of supported geosynthetics	BS EN 14574:2015	A	



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GEOMEMBRANES (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	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>		
	Swell Index of Clay	USP NF XVII ASTM D5890-11	A A
	Fluid loss	ASTM D5891-02(2009)	A
GEOSYNTHETIC CLAY LINERS	<u>Physical Tests and related Opinions and Interpretations</u>		
	Montmorillonite content (Methylene blue capacity)	API RP 131 VDG P69	A
	Water absorption of bentonite	ASTM E946:1992	A
	Mass per unit area (GCL)	ASTM D5993 (2014) BS EN 965:1995 (superseded) ASTM D5261-2010 BS EN 14196:2003	A



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GEOSYNTHETIC CLAY LINERS (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u>		
	Puncture resistance (CBR puncture test)	BS 6906:Part 4:1989 (withdrawn) BS EN ISO 12236:2006 DIN 54307:1982 ASTM D6241(2014)	A
	Breaking load and extension (grab method)	ASTM D4632(2015)	A
	Moisture content (GCL)	ASTM D2216-2010 ISO 11465:1993 Part 3	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 (2015)	A
	Thickness at specified pressures	EN ISO 9863-1:2005 BS EN 964-1:1995 (superseded) ASTM D5199:2012	A
	Peel strength	ASTM D4632 (2015) 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 13859-1:2014 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 13859-1:2014 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 13859-1:2014 and EN 13859-2:2010	A
	Artificial ageing (elevated temperature)	BS EN 1296:2001 BS EN 1296:2001 modified by EN 13859-1:2014 and EN 13859-2:2010	A
Water vapour transmission	BS EN 1931:2000 BS EN ISO 12572:2001 BS 3177:1959(withdrawn)	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 protection against heat and flame	<u>Fire Testing and related Opinions and Interpretations</u>		
	Flammability and related Opinions and Interpretations	BS EN 532:1995 (withdrawn) BS EN ISO 6941:1995 (withdrawn) BS EN ISO 6941:2003	B
	Limiting oxygen index	BS EN 533:1997 (withdrawn) BS EN ISO 14116:2008 BS ISO 15025:2000 (withdrawn) BS EN ISO 15025:2002 ASTM D6413-08 BS EN ISO 4589-2:1999	B C
PROTECTIVE CLOTHING and GLOVES	Burning behaviour	BS EN 407:1994, Clause 6.3 (withdrawn) BS EN 407:2004, Clause 6.3	B
	Heat transfer (radiation)	BS EN ISO 6942:2002	B
	Heat transfer (flame)	BS EN 367:1992 ISO 9151:1995	B
	Heat transfer (flame and radiation)	ASTM F2700-08	B
	Heat transfer (contact heat)	BS EN 702:1995 (2007) ISO 12127:1996 (withdrawn) ISO 12127-1:2007	B
	Molten metal splash	BS EN 373:1993 (withdrawn) BS EN ISO 9185:2007	B



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PROTECTIVE CLOTHING and GLOVES (cont'd)	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 ISO 6530: 2005	B
	Mechanical Risk Test (for automobile drivers)	FIA Standard No 8856:2000 Appendix II	B
	Oven Gloves	BS 6526:1998 (2012)	B
	Burn Injury Prediction Testing	ASTM F 1930: 2000(2008) using an instrumented manikin ISO 13506:2008 using an instrumented manikin	
TEXTILES	Dimensional change	ISO 5077:1984 (withdrawn) ISO 3759:1984 (withdrawn) ISO 3759:2007 (withdrawn) BS EN ISO 3759:2011 BS EN ISO 5077:2008	B
	Washing	BS EN ISO 6330:2012	B
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



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TEXTILE FLOOR COVERINGS, UNDERLAYS AND BACKINGS	<u>Physical Tests and related Opinions and Interpretations</u>		
	Carpet Construction	BS 4051:1987 ISO 1765:1986 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 ISO 4919:2012	D
	Fibre shedding	Documented In-House Method (E2-15)	D
	Lisson tretrad	BS EN 1963:2007	D
	<u>Appearance Retention:</u>		
	Tumbler test – Hexapod/Vetterman	BS ISO 10361:2012	D
	Castor chair	BS EN 985:2001	D
	Edge fraying (Vetterman) Assessment	BS EN 1814:1998 BS EN 1471:2005	
	Size and squareness of carpet tiles	BS 5921:1980	D
Side length, squareness and straightness of tiles	BS EN 994:1996	D	



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TEXTILE FLOOR COVERINGS, UNDERLAYS AND BACKINGS (cont'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 (withdrawn)	D
	Tensile strength	BS 2576:1986 (withdrawn) BS EN ISO 13934-1:2013	D
	Mass of use surface	BS EN 984:2001	D
	Classification of carpets	BS EN 1307:2014	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 ISO 10965:2011	D
	<u>Fire Testing and related Opinions and Interpretations</u>		
	Classification	BS EN 13501:Part 1:2002 BS EN 13501:Part 1:2007+A1	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	



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TEXTILE FABRICS and FABRIC ASSEMBLIES	Water soak, washing, dry cleaning, etc	BS 5651:1978	D
UPHOLSTERED FURNITURE	<u>Fire Tests and related Opinions and Interpretations</u> Ignitability and burning behaviour (including water soaking pre-treatments)	BS EN 1021-1:2014 BS EN 1021-2:2014 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 Curtains and Drapes	BS 5438:1989 (Amd 1990/1994) (1997) Test 2 BS 5867:Part 2:2008 BS EN ISO 15025:2002	D D
BEDDING and BEDDING COMPOSITES	<u>Fire Tests and related Opinions and Interpretations</u> Ignitability and burning behaviour Ignitability of bed bases, etc Resistance to ignition	BS 6807:2006 BS EN 597:Parts 1 and 2:1995 BS 7177:2008+A1:2011 BS 7175:1989(1994)	D D D
MARINE & AIRCRAFT	<u>Fire Tests and related Opinions and Interpretations</u> Upholstered furniture Vertically supported textiles and films	IMO FTP Code 2010 Pt8 IMO FTP Code 2010 Pt7	D D



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MARINE & AIRCRAFT (cont'd)	<u>Fire Tests and related Opinions and Interpretations</u> (cont'd)		
	Bedding components	IMO FTP Code 2010 Pt9	D
	Surface flammability	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
MARQUEES	<u>Fire Tests and related Opinions and Interpretations</u>		
	Flammability	BS 7837:1996	D
END			