

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 17025:2017</p>	<p>Shirley Technologies Limited Trading as BTTG</p> <p>Issue No: 056 Issue date: 27 September 2021</p>	
	<p>Wira House West Park Ring Road Leeds West Yorkshire LS16 6QL</p>	<p>Contact: Catherine Gibson Tel: +44 (0)161 876 4211 E-Mail: onestopshop@bttg.co.uk Website: www.shirley.co.uk www.bttg.co.uk</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Location details	Activity	Location code
<p>Address BTTG Unit 14 Wheel Forge Way Ashburton Park Trafford Park Manchester M17 1EH</p> <p>Local contact Mr R Marshall Tel: +44 (0)161-873 6543 Email: Rob.marshall@bttg.co.uk</p>	<p><u>Testing:</u> Geotextiles, Geomembranes Geosynthetic Clay Liners Roofing Membranes</p>	A
<p>Address BTTG Unit 6 Wheel Forge Way Ashburton Park Trafford Park Manchester M17 1EH</p> <p>Local contact Mrs Lindsay Adams Tel: +44 (0)161-876 4211 Email: Lindsay.adams@bttg.co.uk</p>	<p><u>Testing:</u> Textiles Protective Clothing Gloves Fibres Coated fabrics Textiles, Made-up Textiles Protective Clothing Gloves Textile Floor Coverings Upholstery</p>	B
<p>Address BTTG Unit 11 Westpoint Enterprise Park Clarence Avenue Trafford Park Manchester M17 1QS</p> <p>Local contact Mr G Heywood Tel: +44 (0)161-869 1610 Email: gareth.heywood@shirley.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 Wira House West Park Ring Road Leeds West Yorkshire LS16 6QL</p> <p>Local contact Tel: +44 (0)113-259 1999 Paul.doherty@bttg.co.uk Julia.bullers@shirley.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>	D

Flexible Scope

The laboratory is accredited to ISO/IEC17025:2017 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 GEN 4 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
	Antibacterial assessment of diffusible agents	AATCC 147:2016	C
FILLING MATERIALS			
Fillings and stuffings other than feather and/or down	Cleanliness	BS 1425-1:1991	D
Feather and/or down	Cleanliness	BS 1425:Part 2:1991 (Withdrawn)	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	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 (withdrawn) and BS 6F 100:1998, Sections 4.2 to 4.4	C
	pH of aqueous extracts	BS EN ISO 3071:2020 BS EN ISO 3071:2006 (Withdrawn)	C & D
	Solvent extractable matter	BS 8459:2005	C & D
	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 CPSC-CH-C1001-09.4:2018	
Wet ashing	BS 6648:1986	C	
Determination of soluble hexavalent chromium	BS EN ISO 17075 - 1:2017 BS EN ISO 17075:2007 (withdrawn)	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) B02:2014	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	D02:2016	D
	Water	E01:2013	D
	Sea water	E02:2013	D
	Chlorinated water	E03:2010	D
	Perspiration	E04:2013	D
	Spotting (water)	E07:2010	D
	Bleaching agencies	N01:1995	D
	Hot Pressing	X11:1994 X11:1996	D
	Rubbing	X12:2016	D
FIBRES	<u>Physical Tests and related Opinions and Interpretations</u>		
	Strength	BS EN ISO 5079:2020	D
	Length	ISO 6989:1981	D
	Diameter	ISO 137:2015	D



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YARNS FIBRES, YARNS, FABRICS, COATED FABRICS, MADE-UP TEXTILES, LEATHER etc	<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 2061:2015	D
	<u>Physical Tests and related Opinions and Interpretations</u>		
	Width	BS EN ISO 2286-1:2016 BS EN 1773:1997 BS ISO 22198:2006	D
	Mass per unit area	BS EN ISO 2286-2:2016 BS EN 12127:1998 BS 6F 100:1998, Section 3.2	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 5441:1988+A1:2019 Section 2, Clauses 9,11 & 12. And Section 3 clauses 14 & 16. BS 5441:1988 Sections 2 Cl. 8, 10 & 11) (withdrawn) BS 5441:1988 Section 3 Cl. 13 (withdrawn) 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 13938-1:2019 BS EN ISO 13938-1:1999 (Withdrawn)	B & D D
	Abrasion resistance	BS EN ISO 12947:Pts 1, 2, 3 and 4:1998 BS EN ISO 12947-2:2016 BS EN 14465:Annex A:2003	D
FABRICS	Pilling	BS EN ISO 12945-1:2020 BS EN ISO 12945-4:2020 BS EN ISO 12945:Pt 1:2001 (withdrawn)	D
	<u>Physical Tests and related Opinions and Interpretations</u>		
	Oil repellency rating	AATCC 118:2012 BS EN ISO 14419:2010	B
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
PROTECTIVE CLOTHING FABRICS	Cold water immersion	BS 4736:1985 ISO 7771:1985 BS 6F 100:1998, Section 3.6	D
	Surface and interfacial tension of solutions of surface active agent	ASTM D 1331-11	C
	Resistance to penetration by synthetic blood	ASTM F 1670-2014 BS ISO 16603:2004	C
TEXTILE FLOORCOVERINGS	Resistance to blood borne pathogens using Phi-X174 bacteriophage penetration	ASTM F 1671-2013 BS ISO 16604:2004	C
	<u>Colour Fastness Tests and related Opinions and Interpretations</u>		
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 (withdrawn) BS EN ISO 4892-3:2016	A & C



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TOYS, TOYS MATERIAL, including CHILDREN'S JEWELLERY	<u>Chemical Tests</u>		
	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 (withdrawn) to meet the requirements of 16 CFR 1303:2016 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)	BS EN ISO 12947:Parts 1-4: 1999 BS EN ISO 12947-2:2016	B
	Dimensional stability (immersion in water)	BS 4736:1985(1996) ISO 7771:1985(2013) BS 6F 100:1998, Section 3.6	B
	Dimensional stability (methods of preparation)	BS EN ISO 3759:2011	B
	Dimensional stability (procedure and repeatability)	BS EN ISO 5077:2008	B
	Dimensional stability (washing)	BS EN ISO 6330:2012	B
	Fabric width	BS EN 1773:1997	B
	Mass per unit area	BS EN 12127:1998 BS 6F 100:1998, Section 3.2	B
	Tear strength (BS 5F 100)	BS 6F 100:1998, Section 3.5	B
	Tear strength (Elmendorf)	ASTM D1424:2009(2013) BS EN ISO 13937-1:2000	B
	Tear strength (Trouser Tear)	BS EN ISO 13937:Part 2:2000+	B
	Tear strength (Wing Rip)	BS EN ISO 13937:Part 3:2000+	B
		(*indicates electronic only)	



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FABRICS (cont'd)	<u>Physical Tests and related Opinions and Interpretations (cont'd)</u>			
	Tensile strength and elongation	BS 6F 100:1998, Section 3.3 BS EN ISO 13934:Part 1:2013 BS EN ISO 13934: 2:2014	B	
	Thickness of fabric	BS EN ISO 5084:1997	B	
	Washing and drying	BS EN ISO 6330:2012 BS EN 26330:1994(withdrawn)	B	
	<u>Woven Fabrics</u>			
	Construction	BS 2861:1984(1996)	B	
	Threads per unit length	BS 2862:1984(1990) (withdrawn) BS 6F 100:1998, Section 3.1 BS EN 1049:Part 2:1994	B	
	<u>Non-Woven Fabrics</u>			
	Mass/unit area	ISO 9073-1:1989(2015)	B	
	Thickness	ISO 9073-2:1995(2016)	B	
	Tensile strength and elongation	ISO 9073-3:1989(2015)	B	
	Tear resistance	ISO 9073-4:1997(2013)	B	
	PROTECTIVE CLOTHING	<u>Barrier Properties</u>		
		Air permeability	BS EN ISO 9237:1995	B
Resistance of fabrics to an artificial shower		BS 5066:1974(1994)	B	
Resistance to water penetration (hydrostatic head) - textile fabrics		ISO 811:1981(2007) BS EN ISO 811:2018 BS EN 20811:1992(1996)	B	



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PROTECTIVE CLOTHING (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	<u>Barrier Properties</u> (cont'd)		
	Thermal resistance or conductivity	ISO 5085:Part 1:1989(2015) BS 4745:2005:Procedure 10.2 and 10.3	B
	Spray rating	BS EN 24920:1992(1996) (withdrawn) ISO 4920:2012 BS EN ISO 4920:2012 BS 3424-26 :1990 Method 29D	B
	Water repellency (Bundesmann)	BS 6F 100:1998, Section 3.8 BS 29865:1993 ISO 9865:1991(2016)	B
	Measurement of water vapour permeability index	BS 7209:1990(1997): Appendix B	B
	<u>Coated Fabrics</u>		
	Conditioning	BS EN ISO 2231:1995 BS 3424:Part 2:1992	B
	Abrasion (Martindale)	BS 3424:Part 24:Method 27A Modes A and B, 1990	B
	Coating adhesion	BS EN ISO 2411:2000	B
	Coating Adhesion	BS 3424:Part 7:Method 9:1982 (1996) (withdrawn)	B
	Blocking test	ISO 5978:1990(2015) BS EN 25978:1993(2015)	B
	Breaking load and extension	ISO 1421:1998 BS EN ISO 1421:2016	B
	Bursting strength	BS ISO 3303:2012	A
Crumple flex	BS 3424:Part 9:Method 11C: 1996 BS EN ISO 7854method C:1997	B	



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PROTECTIVE CLOTHING (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd) <u>Barrier Properties</u> (cont'd) Flexing resistance (Schildknecht) Test Methods and performance classification	BS EN ISO 7854: Method B: 1997 BS 3424: Part 9:Method B 1996 BS EN 14325:2018	B
	<u>Coated Fabrics</u> Surface drag Low Temperature Performance Tear strength Tear strength (Trousers Tear) Thickness Width: mass and length Width Total mass/coating mass/substrate mass Air permeability	BS 3424:Part 10:Method 12B:1987(1996) BS 3424-8-Method 10A:1983 (withdrawn) BS 3424:Part 5:Method 7:1982 (1996) (withdrawn) ISO 4674:1977 (withdrawn) BS EN ISO 4674-1:2016 BS EN ISO 4674:Part 2:1998(2013) BS EN ISO 4674-1:2003 (withdrawn) BS EN ISO 13937:Part 2:2000 (electronic only) ISO 2286:Part 3:1998(withdrawn) BS EN 22286:1994 (withdrawn) BS EN 22286:1994 (withdrawn) BS EN ISO 2286-1:2016 BS EN ISO 2286:Part 1:1998 (withdrawn) BS EN ISO 2286-2:2016 BS EN ISO 2286:Part 2:1998 (withdrawn) BS EN ISO 9237:1995	B B B B B B B



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PROTECTIVE CLOTHING (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	<u>Coated Fabrics</u> (cont'd)		
	Resistance of fabrics to an artificial shower	BS 5066:1974(1993)	B
	Resistance to water penetration (hydrostatic head) - coated fabrics	BS 3424:Part 26:Methods 29A and 29C:1990	B
	Thermal resistance or conductivity	ISO 5085:Part 1:1989(2015) BS 4745:2005(2016):Procedure 10.2 and 10.3	B
	Spray rating	BS EN 24920:1992(1996) (withdrawn) ISO 4920:2012 BS EN ISO 4920:2012	B
	Water repellency (Bundesmann)	BS 6F 100:1998, Section 3.8 BS EN 29865:1993 ISO 9865:1991(2016)	B
	Measurement of water vapour permeability index	BS 7209:1990(1997): Appendix B BS 3424:Part 34:Method 37: 1992	B
	Abrasion (Martindale)	BS EN ISO 12947:Parts 1-4: 1998 BS EN ISO 12947-2:2016	B
	Test Methods and performance classification	BS EN 14325:2018	
	Dimensional stability (immersion in water)	BS 4736:1985(1996) BS 6F 100:1998, Section 3.6	B
	Dimensional stability (methods of preparation)	BS EN ISO 3759:2008 (withdrawn) BS EN ISO 3759: 2011	B
	Dimensional stability (procedure and repeatability)	BS EN ISO 5077:2008	B



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PROTECTIVE CLOTHING (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	Dimensional stability (washing)	BS EN ISO 6330:2012	B
	Mass per unit area	BS 6F 100:1998, Section 3.2	B
	Tear strength	BS 6F 100:1998, Section 3.5	B
	Tear strength (Elmendorf)	ASTM D1424:2009(2013) BS EN ISO 13937-1:2000	B
	Tear strength (Trouser Tear)	BS EN ISO 13937:Part 2:2000+	B
	Tear strength (Tongue Tear)	BS EN ISO 13937:Part 4:2000+	B
	Tear strength (Wing Rip)	BS EN ISO 13937:Part 3:2000+	B
	Tensile strength and elongation	BS 6F 100:1998, Section 3.3 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	B
	Thickness of fabric	BS EN ISO 5084:1997 (* indicates electronic only)	
	<u>Woven Fabrics</u>		
	Construction	BS 2861:1984(1996)	B
	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	B
	Air permeability	BS EN ISO 9237: 1995	B
Resistance of fabrics to an artificial shower	BS 5066:1974(1993)	B	



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PROTECTIVE CLOTHING (cont'd)	<u>Physical Tests and related Opinions and Interpretations (cont'd)</u> <u>Woven Fabrics (cont'd)</u>		
	Resistance to water penetration (hydrostatic head) - textile fabrics	BS EN 20811:1992(1996) ISO 811:1981 (2007) BS EN ISO 811:2018	B
	Spray rating	BS EN 24920:1992(1996) (withdrawn) ISO 4920:2012 BS EN ISO 4920:2012	B
	Water repellency (Bundesmann)	BS 6F 100:1998, Section 3.8 BS EN 29865:1993 ISO 9865:1991(2016)	B
	Measurement of water vapour permeability index	BS 7209:1990(1997): Appendix B BS 3424:Part 34:Method 37	B
	Thermal and water vapour resistance	BS EN 31092:1993+A1:2012 (withdrawn) ISO 11092:1993+A1:2012 (withdrawn) BS EN ISO 11092:2014 ISO 11092:2014	B
	Abrasion resistance	BS EN 530:1995 BS EN 530:2010	B
	Requirements for protective clothing against foul weather Pretreatments (Fuel & Oil)	BS EN 343:2019 Section 5.5 BS EN 343:2003+A1:2007 Cl 5.1.3.5 (withdrawn)	B
	<u>High Visibility Warning Clothing</u>		
	Design/background area	Shirley Method 134:2017	B
Chromaticity background material	BS EN ISO 20471:2013 + A1(2016) BS EN 1150:1999 RIS-3279-TOM:2016	B	
Puncture resistance	BS EN 863:1996(2002)	B	



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PROTECTIVE CLOTHING (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd) <u>Woven Fabrics</u> (cont'd) Thickness	BS ISO 23529: 2010 ISO 4648:1991 (withdrawn) BS EN ISO 2286-3;1998 BS EN 22286:1994 (withdrawn)	B
GLOVES	Gloved finger dexterity <u>Mechanical Risk</u> Abrasion Resistance Puncture resistance Tear resistance Blade Cut Thickness	EN 420:2003 +A1 2009 BS EN 388:2016 BS EN 388:2003(withdrawn) BS EN 388:1994(withdrawn) BS EN 388:2003(withdrawn) BS EN 388:2016 BS EN 388:2003(withdrawn) BS EN 388:2016 BS EN 388:2003(withdrawn) BS EN 388:2016 BS EN ISO 2286-3:1998	B B B B B B



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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
	Tensile properties of geogrids by the single or multi-rib tensile method	ASTM D6637-15	A
	Water-flow, normal to the plane	BS EN ISO 11058:2019	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 D5261-10(2018) 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	



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GEOTEXTILES AND GEOTEXTILE RELATED PRODUCTS (cont'd)	<u>Geotextiles and Related Products</u> (cont'd)		
	Resistance to penetration by Water	BS EN 13562:2000	A & B
	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 D1621-16 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 D4595-17 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 13426-1:2003 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)		
	Thickness at specified pressures	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
	Pore/Opening size by wet sieving	BS EN ISO 12956:2020	A
	Determination of long term protection efficiency of geotextiles in contact with geosynthetic barriers	EN ISO 13719:2016	A
	General tests for evaluation following durability testing	EN 12226:2012	A
	Resistance to acid and alkaline liquids (Screening method)	EN 14030:2001	A & C
	Resistance to oxidation (Screening methods)	EN ISO 13438:2004 (withdrawn) Methods A1, A2, B1 & B2	A & C
	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 13249:2016	A & C	
Geotextiles – Tensile Properties	AS 3706.2-2012	A	



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GEOTEXTILES AND GEOTEXTILE RELATED PRODUCTS (cont'd)	<u>Physical Tests and related Opinions and Interpretations</u> (cont'd)		
	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
	Geotextiles- Pore size distribution	AS 3706.7-2014	A
	Geotextiles- Permittivity, permeability and flow rate	AS 3706.9-2012	A
	Static Thickness	AS 2001.2.15-1989 (2016)	A
	Mass per unit area	AS 2001.2.13-1997 (2016)	A
	Soil moisture content	AS 1289.2.1.1-2005 (2016)	A
	Geotextiles- Grab strength	AS 2001.2.3.2: 2001 (2016)	A
Geotextiles- Strip Tensile	AS2001.2.3.1: 2001 (2016)	A	
GEOMEMBRANES	<u>Physical Tests and related Opinions and Interpretations</u>		
	Oxidative Induction Time	ASTM D3895-19 using Differential Scanning Calorimeter BS EN ISO 11357-6:2018	A & C A
	Melt flow rate of thermoplastics by extrusion plastomer	ASTM D1238-2013	A
	Tensile properties of plastics	ASTM D6693-04 (2015) EN ISO 527-1:1996 EN ISO 527-3:1995(1998)	A A



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GEOMEMBRANES (cont'd)	<u>Physical Tests and related Opinions and Interpretations (cont'd)</u>		
	Determination of 2% secant modulus for polyethylene geomembranes	ASTM D5323-92(2011)	A
	Bond strength (ply adhesion) of geocomposites	ASTM D7005-16	A
	Initial tear resistance of plastic film and sheeting	ASTM D1004-13	A
	Density of plastics	ASTM D1505-18	A
	Thickness of Geomembranes	ASTM D5199:2012 ASTM D5994-2010	A
	Thickness	BS EN 964-1:1995 (superseded)	A
	Asperity Measurement	GRI GM12 ASTM D7466/S7466M-10(2015)e1	A
	Carbon black content	ASTM D1603-14(superseded)	A
	Carbon black dispersion	ASTM D5596-03 (2016)	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(2018)	A
	Stress cracking using notched constant tensile load	ASTM D5397-07(2012) BS EN 14576:2005	A
	Dimensional stability	ASTM D1204-14	A
BENTONITE CLAY	Methodology for cylinder testing of protectors for geomembranes	Environment Agency - April 2006 Environment Agency 2011	A
	<u>Physical Tests and related Opinions and Interpretations</u>		
	Swell Index of Clay	USP NF XVII ASTM D5890-19	A A
GEOSYNTHETIC CLAY LINERS	Fluid loss	ASTM D5891/D5891M-19	A
	<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 D5993-18 BS EN 965:1995 (superseded) ASTM D5261-10(2018) BS EN 14196:2016	A



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GEOSYNTHETIC CLAY LINERS (cont'd)	<u>Physical Tests and related Opinions and Interpretations (cont'd)</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 D4595-17 BS EN ISO 10319:2015 BS 6906:Part 1:1987(1995) (withdrawn)	A
	Tensile strength	ASTM D6768-18	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 D5887-16	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 BS EN 12311-2:2013	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 12572:2016 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	B



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FABRICS:	<u>Fire Testing and related Opinions and Interpretations</u>		
Textile and apparel	Burning Behaviour	BS EN 1103:2005 BS EN ISO 6941:2003	B
for protection against heat and flame		BS EN 533:1997 (withdrawn) BS ISO 15025:2000 (withdrawn) BS EN ISO 15025:2002(withdrawn) BS EN ISO 15025:2016 ISO 15025:2016 ASTM D6413-15	B
	Limiting oxygen index	BS EN ISO 4589-2:1999	C
	Mechanical pre-treatment for metallized materials	BS EN ISO 11612:2015 Annex A BS EN 1486:2007 Annex A ISO 15538:2001 Annex A	B
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(withdrawn) BS EN ISO 9151 :2016 ISO 9151:2016 ISO 9151:1995 (withdrawn)	B
	Heat transfer (flame and radiation)	ASTM F2700-08(2013)	B
	Heat transfer (contact heat)	BS EN 702:1995 (2007) ISO 12127-1:2007 BS EN ISO 12127-1:2015	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



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PROTECTIVE CLOTHING and GLOVES (cont'd)	Heat resistance	BS ISO 17493:2000(withdrawn) BS ISO 17493:2016	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 (2017)	B
	Burn Injury Prediction Testing	ASTM F 1930: 2000(2008) (withdrawn) 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 ISO 6330:2000(withdrawn)	B
	Industrial Washing and Finishing Procedures for testing of Workwear. – Excluding tunnel drying	ISO 15797:2002 ISO 15797:2018	B
PROTECTIVE CLOTHING	<u>Electrostatic properties</u>		
	Surface resistivity Electrical resistance through material	BS EN 1149-1:2006 BS EN 1149-2:1997	D
	Charge decay	BS EN 1149-3:2004	D
	Design Requirements	BS EN 1149-5:2018	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 BS ISO 1763:2020 BS ISO 8543:2020	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 ISO 12951:2020 BS EN 1963:2007 (withdrawn)	D
	<u>Appearance Retention:</u>		
	Tumbler test – Hexapod/Vetterman	BS ISO 10361:2012 BS ISO 10361:2015	D
	Castor chair	BS EN 985:2001	D
	Edge fraying (Vetterman)	BS EN 1814:2005	D
	Assessment	BS EN 1471:1997 BS EN ISO 9405:2017	D
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
	Tensile strength	BS 2576:1986 (withdrawn) BS EN ISO 13934-1:2013	D
	Classification of carpets	BS EN 1307:2014+A3:2018	D
	Classification of underlays	BS 5808:1991	D
	Minimum Requirements for Carpet underlays	BS EN 14499:2015	D
	<u>Electrostatic Tests and related Opinions and Interpretations</u>		
Electrical resistance	BS ISO 10965:2011	D	
Body voltage. Assessment of static electrical propensity.	BS EN 1815:2016	D	
BUILDING MATERIALS and STRUCTURES	<u>Fire Testing and related Opinions and Interpretations</u>		
	Reaction to Fire	Methods of test required for the Fire classification of construction products and building elements (BS EN 13501-1:2007 + A1:2009) using data from the reaction to fire tests detailed below.	D
	Burning behaviour using a radiant heat source	BS EN ISO 9239:Part 1:2010 AS ISO 9239.1:2003(2016)	D
	Direct impingement - single flame source	BS EN ISO 11925:Part 2:2010	D
Thermal attack by a single burning item	BS EN 13823:2002 BS EN 13823:2010	D	



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TEXTILE FLOORCOVERINGS AND CONSTRUCTION PRODUCTS	<u>Fire Tests and related Opinions and Interpretations</u> 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	D
UPHOLSTERED FURNITURE	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 EN 1021-1:2006 BS EN 1021-2:2006 BS 5852:2006 BS 5852:Part 1:1979 BS 5852:Part 2:1982	D
FABRICS	Ignitability, flame spread	BS 5438:1989 (Amd 1990/1994) (1997) Test 2	D
	Curtains and Drapes	BS 5867:Part 2:2008 BS EN ISO 15025:2002	D
BEDDING and BEDDING COMPOSITES	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	Upholstered furniture	IMO FTP Code 2010 Pt8	D
	Vertically supported textiles and films	IMO FTP Code 2010 Pt7	D



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	Bedding components	IMO FTP Code 2010 Pt9	D
MARINE & AIRCRAFT(cont'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	Flammability	BS 7837:1996	D
END			