

PWT GROUP APPAREL TESTING

V2 JUNE 2026

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1. WOVEN TOPS, BOTTOMS AND DRESSES

Test Name	Test Standard	Requirements			Comments
Fibre Composition	1007/2011	No tolerance for 100% composition +/- 3% on blends			To be completed on all base material qualities once per season.
Flammability requirements for Switzerland	EN 1103	No surface flash <90mm/sec flame spread			
Flammability requirements for Netherlands	ASTM D1240	Contact 1 second <4s flame spread at 127mm			
Stability to Washing	BS EN ISO 6330:2012	0 to - 3% 0 to - 5% for Viscose & Viscose Blends			4N @ 40°C Dry per Care Label
Stability to Dry Cleaning	Commercial Process	0 to - 3% 0 to - 5% for Viscose & Viscose Blends			Items that are Dry Clean only
Product Appearance after Multiple Wash	ISO 6330	Assess appearance and dimensional stability after 1 & 5 Washes 0 to - 3% 0 to - 5% for Viscose & Viscose Blends Change: 4 Cross Stain: 4/5 Sight loss of print adhesion acceptable Slight delamination or cracking of print acceptable Slight loss of flocking acceptable			Test at 4N @ 40°C Dry per Care Label
Product Appearance after Multiple Dry Clean	Commercial Process	Assess appearance and dimensional stability after 1 & 3 Dry Clean Cycles 0 to - 3% 0 to - 5% for Viscose & Viscose Blends Change: 4 Cross Stain: 4/5 Sight loss of print adhesion acceptable Slight delamination or cracking of print acceptable Slight loss of flocking acceptable			
Security of Attachment	CEN/TR 16792 for graspable items greater than 3mm Annex B, for non graspable and items <3mm Annex C	70N			Test 5 of each component type and report results individually
Cords and Drawstrings	EN 14682	Must Comply			All childrenswear
Zip Fasteners	BS EN 16732	Compliance with physical performance (as appropriate)			
Buttons	BS 4162 Clause 4.5.2 Impact	Compliance to the Standard			
Peel Strength Touch and close fasteners	ISO 22777	Min 0.8 N/mm			After 5 washes
		Lightweight <100gms	Medium 100-200gms	Heavyweight >200gms	
Tensile Strength	BS EN ISO 13934 -2 Grab Method	120N	160N	200N	For Woven Fabrics Only Test in non-stretch direction only
Seam Strength	BS EN ISO 13935 -2	100N	120N	140N	For Woven Fabrics Only Test in non-stretch direction only
Seam Slippage	BS EN ISO 13936 -1	80N	100N	120N	For Woven Fabrics Only Test in non-stretch direction only Seam Open 6mm 3mm for contrast warp & weft threads
Tear Strength	BS EN 13937 - 1	700cN	800cN	900cN	For Woven Fabrics Only Test in non-stretch direction only Cellulosics & Cellulose blends
Martindale Abrasion	BS EN ISO 12947 - 2	10,000 rubs	15,000 rubs	20,000 rubs	For Woven Fabrics Only 9kPa weight Shade Change not required on whites
		Shade Change @ 5000 Revs Grade 4			
Residual Elongation	BS EN 14704 -1 Method A	Max 5% Unrecovered Elongation			Fabrics containing elastane only 40N Load on Jeans, 30N Load on all other garment types Assess after 1 and 30 minutes Test in stretch direction only



Test Name	Test Standard	Requirements	Comments
Martindale Pilling	BS EN ISO 12945 -2	2,000 revs Grade ¾	Test after one care label wash and dry. Assess against original. Report assessment at 125, 500 & 1,000 cycles with final assessment at 2,000 cycles Spun synthetics, wool, acrylic and
Accelerator	AATCC 93	Weight Loss 15% Visual Assessment 'Negligible'	Pile fabrics only 3mins Velvet @ 2000rpm 5mins Cord or Velour @ 2000rpm
Mass per Unit Area	BS EN 12127	-5%/+5%	
Nap Stability- Surface Change	BS EN ISO 12947-4: (No weight)	@ 4,000 revs Min grade 4 change	Raised and pile fabrics only
Colour Fastness to Washing	BS EN ISO 105 -C06	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5	A2S 40°C N/A on white & cream fabrics
Colour Fastness to Dry Cleaning	BS EN ISO 105 -D01	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5	Items that are Dry Clean only N/A on white & cream fabrics
Colour Fastness to Water	BS EN ISO 105 -E01	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5	N/A on white & cream fabrics
Colour Fastness to Rubbing	BS EN ISO 105 -X12	Dry: 4 Wet: 3	N/A on white & cream fabrics
Colour Fastness to Light	BS EN ISO 105 -B02	Grade 4 @ BWS4	N/A on white & cream fabrics
Easycare / Non Iron	AATCC 124 or ISO 7769	Easycare Grade 3.5 Non Iron 4.0	Only required when Easy Care or Non Iron properties are being claimed
Crease Resistant Wrinkle Recovery	AATCC 128	Grade 3.5	Only required when Crease Resistant properties are being claimed

IN ADDITION TO ABOVE ALL PRODUCTS TO MEET CHEMICAL COMPLIANCE FOR THE REGION IN WHICH THEY ARE SOLD

2. OUTERWEAR – WOVEN AND KNITTED

Test Name	Test Standard	Requirements			Comments
Fibre Composition	1007/2011	No tolerance for 100% composition +/- 3% on blends			To be completed on all base material qualities once per season.
Flammability requirements for Switzerland	EN 1103	No surface flash <90mm/sec flame spread			
Flammability requirements for Netherlands	ASTM D1240	Contact 1 second <4s flame spread at 127mm			
Stability to Washing	BS EN ISO 6330:2012	0 to - 3% 0 to - 5% for Viscose & Viscose Blends			4N @ 40°C Dry per Care Label
Stability to Dry Cleaning	Commercial Process	0 to - 3% 0 to - 5% for Viscose & Viscose Blends			Items that are Dry Clean only
Product Appearance after Multiple Wash	ISO 6330	Assess appearance and dimensional stability after 1 & 5 Washes 0 to - 3% 0 to - 5% for Viscose & Viscose Blends Change: 4 Cross Stain: 4/5 Sight loss of print adhesion acceptable Slight delamination or cracking of print acceptable Slight loss of flocking acceptable			Test at 4N @ 40°C Dry per Care Label
Product Appearance after Multiple Dry Clean	Commercial Process	Assess appearance and dimensional stability after 1 & 3 Dry Clean Cycles 0 to - 3% 0 to - 5% for Viscose & Viscose Blends Change: 4 Cross Stain: 4/5 Sight loss of print adhesion acceptable Slight delamination or cracking of print acceptable Slight loss of flocking acceptable			
Security of Attachment	CEN/TR 16792 for graspable items greater than 3mm Annex B, for non graspable and items <3mm Annex C	70N			Test 5 of each component type and report results individually
Cords and Drawstrings	EN 14682	Must Comply			All childrenswear
Zip Fasteners	BS EN 16732	Compliance with physical performance (as appropriate)			
Buttons	BS 4162 Clause 4.5.2 Impact	Compliance to the Standard			
Peel Strength Touch and close fasteners	ISO 22777	Min 0.8 N/mm			After 5 washes
		Lightweight <100gms	Medium 100-200gms	Heavyweight >200gms	
Tensile Strength	BS EN ISO 13934 -2 Grab Method	120N	160N	200N	For Woven Fabrics Only Test in non-stretch direction only
Seam Strength	BS EN ISO 13935 -2	100N	120N	140N	For Woven Fabrics Only Test in non-stretch direction only
Seam Slippage	BS EN ISO 13936 -1	80N	100N	120N	For Woven Fabrics Only Test in non-stretch direction only Seam Open 6mm 3mm for contrast warp & weft threads
Tear Strength	BS EN 13937 - 1	700cN	800cN	900cN	For Woven Fabrics Only Test in non-stretch direction only Cellulosics & Cellulose blends
Martindale Abrasion	BS EN ISO 12947 - 2	10,000 rubs	15,000 rubs	20,000 rubs	For Woven Fabrics Only 9kPa weight Shade Change not required on whites
		Shade Change @ 5000 Revs Grade 4			
Residual Elongation	BS EN 14704 -1 Method A	Max 5% Unrecovered Elongation			Fabrics containing elastane only 40N Load on Jeans, 30N Load on all other garment types Assess after 1 and 30 minutes Test in stretch direction only



Test Name	Test Standard	Requirements	Comments										
Martindale Pilling	BS EN ISO 12945 -2	Woven 2,000 revs Knitted 500 revs Grade ¼	Test after one care label wash and dry. Assess against original. Report assessment at 125, 500 & 1,000 cycles with final assessment at 2,000 cycles Spun synthetics, wool, acrylic and their blends only										
Accelerator	AATCC 93	Weight Loss 15% Visual Assessment 'Negligible'	Pile fabrics only 3mins Velvet @ 2000rpm 5mins Cord or Velour @ 2000rpm										
Mass per Unit Area	BS EN 12127	-5%/+5%											
Nap Stability- Surface Change	BS EN ISO 12947-4: (No weight)	@ 4,000 revs Min grade 4 change	Raised and pile fabrics only										
Surface Flash	BS4569	No Flash	Required on products with a pile >3mm										
Colour Fastness to Washing	BS EN ISO 105 -C06	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5	A2S 40°C N/A on white & cream fabrics										
Colour Fastness to Dry Cleaning	BS EN ISO 105 -D01	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5	Items that are Dry Clean only N/A on white & cream fabrics										
Colour Fastness to Water	BS EN ISO 105 -E01	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5	N/A on white & cream fabrics										
Colour Fastness to Rubbing	BS EN ISO 105 -X12	Dry: 4 Wet: 3	N/A on white & cream fabrics										
Colour Fastness to Light	BS EN ISO 105 -B02	Grade 4 @ BWS4	N/A on white & cream fabrics										
Fibre Proof Properties	BS 15586	No more than 6 fibres penetration	Only required on items that have synthetic wadding										
Hygiene and Cleanliness Specification Feather and Down Oxygen Index Number	BS EN 12935: 2001 BS EN 1162 (method)	<20 OI 20-50 OI conduct Microbiological State EN 1884. To be conducted on untreated / undyed feathers only											
Hygiene and Cleanliness Specification Feather and Down Determination of microbiological state (used as filler) & Marabou - undyed	BS EN 12935: 2001 EN 1884 (method)	Only test if OI result of BS EN 1162 is >20. Testing to be stopped and failed if >50 <u>To be conducted on untreated / undyed feathers only</u>	<table border="1"> <thead> <tr> <th>Impurity indicator</th> <th>Limit of acceptability</th> </tr> </thead> <tbody> <tr> <td>Mesophil aerobic bacteria count</td> <td>Less than 10⁶ CFU/g</td> </tr> <tr> <td>Faecal Streptococci count</td> <td>Less than 10² CFU/g</td> </tr> <tr> <td>Sulphite reducing clostridium count</td> <td>Less than 10² CFU/g</td> </tr> <tr> <td>Presence of salmonella</td> <td>Absent in 20g feathers</td> </tr> </tbody> </table>	Impurity indicator	Limit of acceptability	Mesophil aerobic bacteria count	Less than 10 ⁶ CFU/g	Faecal Streptococci count	Less than 10 ² CFU/g	Sulphite reducing clostridium count	Less than 10 ² CFU/g	Presence of salmonella	Absent in 20g feathers
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Mesophil aerobic bacteria count	Less than 10 ⁶ CFU/g												
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Sulphite reducing clostridium count	Less than 10 ² CFU/g												
Presence of salmonella	Absent in 20g feathers												
Waterproof Claims Hydrostatic Head	BS 20811	Waterproof >160cm/H ² O Main Fabric and Taped Seams before and one after cleanse Water Repellent >100cm/H ² O Main Fabric and Taped Seams before and one after cleanse	Cleanse to Care Label Only required when Waterproof properties are being claimed										
Shower Resistant Claims Spray Rating	BS EN ISO 4920 Before & after one cleanse	Grade 4/5 as received Grade 4 After one Cleanse	Cleanse to Care Label Only required when Shower Resistant is being claimed										
Wind Resistant Claims Air Permeability	BS EN ISO 9237	Wind Resistant <20 litres/m2/sec Windproof :<0.1 litres/m2/sec	Only required when Wind Resistant is being claimed										



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Test Name	Test Standard	Requirements	Comments
Breathability Claims Moisture Vapour Permeability	BS 7209 (16 hours)	WVP Index >65%	Only required when Breathable properties are being claimed
Thermal Resistance Outerwear	BS 4745 Single plate	Must meet Tog value being claimed	Only required when Thermal properties are being claimed

IN ADDITION TO ABOVE ALL PRODUCTS TO MEET CHEMICAL COMPLIANCE FOR THE REGION IN WHICH THEY ARE SOLD

3. KNITTED TOPS, BOTTOMS AND DRESSES

Test Name	Test Standard	Requirements	Comments
Fibre Composition	1007/2011	No tolerance for 100% composition +/- 3% on blends	To be completed on all base material qualities once per season.
Flammability requirements for Switzerland	EN 1103	No surface flash <90mm/sec flame spread	
Flammability requirements for Netherlands	ASTM D1240	Contact 1 second <4s flame spread at 127mm	
Stability to Washing	BS EN ISO 6330:2012	0 to - 3% 0 to - 5% for Viscose & Viscose Blends	4N @ 40°C Dry per Care Label
Stability to Dry Cleaning	Commercial Process	0 to - 3% 0 to - 5% for Viscose & Viscose Blends	Items that are Dry Clean only
Product Appearance after Multiple Wash	ISO 6330	Assess appearance and dimensional stability after 1 & 5 Washes 0 to - 3% 0 to - 5% for Viscose & Viscose Blends Change: 4 Cross Stain: 4/5 Sight loss of print adhesion acceptable Slight delamination or cracking of print acceptable Slight loss of flocking acceptable	Test at 4N @ 40°C Dry per Care Label
Product Appearance after Multiple Dry Clean	Commercial Process	Assess appearance and dimensional stability after 1 & 3 Dry Clean Cycles 0 to - 3% 0 to - 5% for Viscose & Viscose Blends Change: 4 Cross Stain: 4/5 Sight loss of print adhesion acceptable Slight delamination or cracking of print acceptable Slight loss of flocking acceptable	
Security of Attachment	CEN/TR 16792 for graspable items greater than 3mm Annex B, for non graspable and items <3mm Annex C	70N	Test 5 of each component type and report results individually
Cords and Drawstrings	EN 14682	Must Comply	All childrenswear
Zip Fasteners	BS EN 16732	Compliance with physical performance (as appropriate)	
Buttons	BS 4162 Clause 4.5.2 Impact	Compliance to the Standard	
Peel Strength Touch and close fasteners	ISO 22777	Min 0.8 N/mm	After 5 washes
Residual Elongation	BS EN 14704 -1 Method A	Max 5% Unrecovered Elongation	Fabrics containing elastane only 40N Load on Jeans, 30N Load on all other garment types Assess after 1 and 30 minutes Test in stretch direction only
Martindale Pilling	BS EN ISO 12945 -2	500 revs Grade ¼	Test after one care label wash and dry. Assess against original. Report assessment at 125, 500 & 1,000 cycles with final assessment at 2,000 cycles Spun synthetics, wool, acrylic and
Accelerator	AATCC 93	Weight Loss 15% Visual Assessment 'Negligible'	Pile fabrics only 3mins Velvet @ 2000rpm 5mins Cord or Velour @ 2000rpm
Mass per Unit Area	BS EN 12127	-5%/+5%	
Nap Stability- Surface Change	BS EN ISO 12947-4: (No weight)	@ 4,000 revs Min grade 4 change	Raised and pile fabrics only
Spirality	ISO 16322-2 (FABRIC) ISO 16322-3 (GARMENT)	Max 5%	For circular knits only Follow ISO 6330
Thermal Properties	BS 4745	Must meet tog rating being claimed	Only if thermal claimed



Test Name	Test Standard	Requirements	Comments
Colour Fastness to Washing	BS EN ISO 105 -C06	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5	A2S 40°C N/A on white & cream fabrics
Colour Fastness to Dry Cleaning	BS EN ISO 105 -D01	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5	Items that are Dry Clean only N/A on white & cream fabrics
Colour Fastness to Water	BS EN ISO 105 -E01	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5	N/A on white & cream fabrics
Colour Fastness to Rubbing	BS EN ISO 105 -X12	Dry: 4 Wet: 3	N/A on white & cream fabrics
Colour Fastness to Light	BS EN ISO 105 -B02	Grade 4 @ BWS4	N/A on white & cream fabrics
Easycare / Non Iron	AATCC 124 or ISO 7769	Easycare Grade 3.5 Non Iron 4.0	Only required when Easy Care or Non Iron properties are being claimed
Crease Resistant Wrinkle Recovery	AATCC 128	Grade 3.5	Only required when Crease Resistant properties are being claimed

IN ADDITION TO ABOVE ALL PRODUCTS TO MEET CHEMICAL COMPLIANCE FOR THE REGION IN WHICH THEY ARE SOLD

4. TRUE KNITWEAR

Test Name	Test Standard	Requirements	Comments
Fibre Composition	1007/2011	No tolerance for 100% composition +/- 3% on blends	To be completed on all base material qualities once per season.
Flammability requirements for Switzerland	EN 1103	No surface flash <90mm/sec flame spread	
Flammability requirements for Netherlands	ASTM D1240	Contact 1 second <4s flame spread at 127mm	
Stability to Washing	BS EN ISO 6330:2012	0 to - 3% 0 to - 5% for Viscose & Viscose Blends	4N @ 40°C Dry per Care Label
Stability to Dry Cleaning	Commercial Process	0 to - 3% 0 to - 5% for Viscose & Viscose Blends	Items that are Dry Clean only
Product Appearance after Multiple Wash	ISO 6330	Assess appearance and dimensional stability after 1 & 5 Washes 0 to - 3% 0 to - 5% for Viscose & Viscose Blends Change: 4 Cross Stain: 4/5 Sight loss of print adhesion acceptable Slight delamination or cracking of print acceptable Slight loss of flocking acceptable	Test at 4N @ 40°C Dry per Care Label
Product Appearance after Multiple Dry Clean	Commercial Process	Assess appearance and dimensional stability after 1 & 3 Dry Clean Cycles 0 to - 3% 0 to - 5% for Viscose & Viscose Blends Change: 4 Cross Stain: 4/5 Sight loss of print adhesion acceptable Slight delamination or cracking of print acceptable Slight loss of flocking acceptable	
Security of Attachment	CEN/TR 16792 for graspable items greater than 3mm Annex B, for non graspable and items <3mm Annex C	70N	Test 5 of each component type and report results individually
Cords and Drawstrings	EN 14682	Must Comply	All childrenswear
Zip Fasteners	BS EN 16732	Compliance with physical performance (as appropriate)	
Buttons	BS 4162 Clause 4.5.2 Impact	Compliance to the Standard	
Peel Strength Touch and close fasteners	ISO 22777	Min 0.8 N/mm	After 5 washes
Martindale Pilling	BS EN ISO 12945 -2	500 revs Grade ¾	Test after one care label wash and dry. Assess against original. Report assessment at 125, 500 & 1,000 cycles with final assessment at 2,000 cycles Spun synthetics, wool, acrylic and their blends only
Colour Fastness to Washing	BS EN ISO 105 -C06	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5	A2S 40°C N/A on white & cream fabrics
Colour Fastness to Dry Cleaning	BS EN ISO 105 -D01	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5	Items that are Dry Clean only N/A on white & cream fabrics
Colour Fastness to Water	BS EN ISO 105 -E01	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5	N/A on white & cream fabrics



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Test Name	Test Method	Requirements	Comments
Colour Fastness to Rubbing	BS EN ISO 105 -X12	Dry: 4 Wet: 3	N/A on white & cream fabrics
Colour Fastness to Light	BS EN ISO 105 -B02	Grade 4 @ BWS4	N/A on white & cream fabrics
IN ADDITION TO ABOVE ALL PRODUCTS TO MEET CHEMICAL COMPLIANCE FOR THE REGION IN WHICH THEY ARE SOLD			

5. SWIMWEAR AND BEACHWEAR

Test Name	Test Standard	Requirements			Comments
Fibre Composition	1007/2011	No tolerance for 100% composition +/- 3% on blends			To be completed on all base material qualities once per season.
Stability to Washing	BS EN ISO 6330:2012	0 to - 3% 0 to - 5% for Viscose & Viscose Blends			4N @ 40°C Dry per Care Label
Product Appearance after Multiple Wash	ISO 6330	Assess appearance and dimensional stability after 1 & 5 Washes 0 to - 3% 0 to - 5% for Viscose & Viscose Blends Change: 4 Cross Stain: 4/5 Sight loss of print adhesion acceptable Slight delamination or cracking of print acceptable Slight loss of flocking acceptable			Test at 4N @ 40°C Dry per Care Label
Security of Attachment	CEN/TR 16792 for graspable items greater than 3mm Annex B, for non graspable and items <3mm Annex C	70N			Test 5 of each component type and report results individually
Cords and Drawstrings	EN 14682	Must Comply			All childrenswear
Zip Fasteners	BS EN 16732	Compliance with physical performance (as appropriate)			
Buttons	BS 4162 Clause 4.5.2 Impact	Compliance to the Standard			
Peel Strength Touch and close fasteners	ISO 22777	Min 0.8 N/mm			After 5 washes
		Lightweight <100gms	Medium 100-200gms	Heavyweight >200gms	
Tensile Strength	BS EN ISO 13934 -2 Grab Method	120N	160N	200N	For Woven Fabrics Only Test in non-stretch direction only
Seam Strength	BS EN ISO 13935 -2	100N	120N	140N	For Woven Fabrics Only Test in non-stretch direction only
Seam Slippage	BS EN ISO 13936 -1	80N	100N	120N	For Woven Fabrics Only Test in non-stretch direction only Seam Open 6mm 3mm for contrast warp & weft threads
Tear Strength	BS EN 13937 - 1	700cN	800cN	900cN	For Woven Fabrics Only Test in non-stretch direction only Cellulosics & Cellulose blends
Martindale Abrasion	BS EN ISO 12947 - 2	10,000 rubs	15,000 rubs	20,000 rubs	For Woven Fabrics Only 9kPa weight Shade Change not required on whites
		Shade Change @ 5000 Revs Grade 4			
Residual Elongation	BS EN 14704 -1 Method A	Weft Knits : 10% max unrecovered after 1&30 minutes			<5% elastane 15N load 5-11% elastane 20N load >11% elastane 25N load
		Warp Knits : 5% max unrecovered after 1&30 minutes			<5% elastane 15N load 5-11% elastane 20N load >11% elastane 25N load
		Wovens : 5% max unrecovered after 1&30 minutes			30N load
Martindale Pilling	BS EN ISO 12945 -2	Woven 2,000 revs Knits 500 revs Grade ¼			Test after one care label wash and dry. Assess against original. Report assessment at 125, 500 & 1,000 cycles with final assessment at 2,000 cycles Spun synthetics, wool, acrylic and
Spirality (knits only)	ISO 16322-2 (FABRIC) ISO 16322-3 (GARMENT)	Max 5%			Circular knits only Follow ISO 6330
Mass per Unit Area	BS EN 12127	-5%/+5%			

Test Name	Test Standard	Requirements	Comments
Colour Fastness to Washing	BS EN ISO 105 -C06	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5	A2S 40°C N/A on white & cream fabrics
Colour Fastness to Water	BS EN ISO 105 -E01	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5	N/A on white & cream fabrics
Colour Fastness to Rubbing	BS EN ISO 105 -X12	Dry: 4 Wet: 3	N/A on white & cream fabrics
Colour Fastness to Light	BS EN ISO 105 -B02	Grade 4 @ BWS4	N/A on white & cream fabrics
Colour Fastness to Chlorinated Water	BS EN ISO 105 - E03	Change: 4 Neon/Fluorescent shades Change: 3	50 mg/L swimwear 20mg/L beachwear
Colourfastness to Sea Water	BS EN ISO 105- E02	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5	N/A on white & cream fabrics
Phenolic Yellowing	BS EN ISO 105 - X18	Change: 4	Applicable to pale shades of fabric and product containing foam cups
Salt Water Corrosion	ISO 22775 Method 2	No corrosion after 24 hours	Metal components only
Heat Conductivity	TS99	Meet	Metal components only
UV Protection Claim	EN 13758-1 EN 13758-2 BS 8466	Must comply with EU PPE Regulations	Only if UVP claimed
IN ADDITION TO ABOVE ALL PRODUCTS TO MEET CHEMICAL COMPLIANCE FOR THE REGION IN WHICH THEY ARE SOLD			

6. PERFORMANCEWEAR

Test Name	Test Standard	Requirements			Comments
Fibre Composition	1007/2011	No tolerance for 100% composition +/- 3% on blends			To be completed on all base material qualities once per season.
Flammability requirements for Switzerland	EN 1103	No surface flash <90mm/sec flame spread			
Flammability requirements for Netherlands	ASTM D1240	Contact 1 second <4s flame spread at 127mm			
Stability to Washing	BS EN ISO 6330:2012	0 to - 3% 0 to - 5% for Viscose & Viscose Blends			4N @ 40°C Dry per Care Label
Stability to Dry Cleaning	Commercial Process	0 to - 3% 0 to - 5% for Viscose & Viscose Blends			Items that are Dry Clean only
Product Appearance after Multiple Wash	ISO 6330	Assess appearance and dimensional stability after 1 & 5 Washes 0 to - 3% 0 to - 5% for Viscose & Viscose Blends Change: 4 Cross Stain: 4/5 Sight loss of print adhesion acceptable Slight delamination or cracking of print acceptable Slight loss of flocking acceptable			Test at 4N @ 40°C Dry per Care Label
Product Appearance after Multiple Dry Clean	Commercial Process	Assess appearance and dimensional stability after 1 & 3 Dry Clean Cycles 0 to - 3% 0 to - 5% for Viscose & Viscose Blends Change: 4 Cross Stain: 4/5 Sight loss of print adhesion acceptable Slight delamination or cracking of print acceptable Slight loss of flocking acceptable			
Security of Attachment	CEN/TR 16792 for graspable items greater than 3mm Annex B, for non graspable and items <3mm Annex C	70N			Test 5 of each component type and report results individually
Cords and Drawstrings	EN 14682	Must Comply			All childrenswear
Zip Fasteners	BS EN 16732	Compliance with physical performance (as appropriate)			
Buttons	BS 4162 Clause 4.5.2 Impact	Compliance to the Standard			
Peel Strength Touch and close fasteners	ISO 22777	Min 0.8 N/mm			After 5 washes
		Lightweight <100gms	Medium 100-200gms	Heavyweight >200gms	
Tensile Strength	BS EN ISO 13934 -2 Grab Method	120N	160N	200N	For Woven Fabrics Only Test in non-stretch direction only
Seam Strength	BS EN ISO 13935 -2	100N	120N	140N	For Woven Fabrics Only Test in non-stretch direction only
Seam Slippage	BS EN ISO 13936 -1	80N	100N	120N	For Woven Fabrics Only Test in non-stretch direction only Seam Open 6mm 3mm for contrast warp & weft threads
Tear Strength	BS EN 13937 - 1	700cN	800cN	900cN	For Woven Fabrics Only Test in non-stretch direction only Cellulosics & Cellulose blends
Martindale Abrasion	BS EN ISO 12947 - 2	10,000 rubs	15,000 rubs	20,000 rubs	For Woven Fabrics Only 9kPa weight Shade Change not required on whites
		Shade Change @ 5000 Revs Grade 4			



Test Name	Test Method	Requirements	Comments
Residual Elongation	BS EN 14704 -1 Method A	Max 5% Unrecovered Elongation	Fabrics containing elastane only 40N Load on Jeans, 30N Load on all other garment types Assess after 1 and 30 minutes Test in stretch direction only
Martindale Pilling	BS EN ISO 12945 -2	2,000 revs Grade ¾	Test after one care label wash and dry. Assess against original. Report assessment at 125, 500 & 1,000 cycles with final assessment at 2,000 cycles Spun synthetics, wool, acrylic and their blends only
Bursting Strength	BS EN ISO 13938-2	300 kPa	Knits only
Spirality	ISO 16322-2 (FABRIC) ISO 16322-3 (GARMENT)	Max 5%	
Mass per Unit Area	BS EN 12127	-5%/+5%	
Colour Fastness to Washing	BS EN ISO 105 -C06	Change: 4 Stain: 4 Cross Stain: 4/5	A2S 40°C N/A on white & cream fabrics
		Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5	
Colour Fastness to Water	BS EN ISO 105 -E01	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5	N/A on white & cream fabrics
Colour Fastness to Rubbing	BS EN ISO 105 -X12	Dry: 4 Wet: 3	N/A on white & cream fabrics
Colour Fastness to Light	BS EN ISO 105 -B02	Grade 4 @ BWS4	N/A on white & cream fabrics
Colour Fastness to Perspiration	BS EN ISO 105 – E04	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5	
UV Protection Claim	EN 13758-1 EN 13758-2 BS 8466	Must comply with EU PPE Regulations	Only if UVP claimed
Reflectivity Claim	BS EN ISO 20471	Must comply with EU PPE Regulations	Only if Reflectivity claimed
Waterproof Claims Hydrostatic Head	BS 20811	Waterproof >160cm/H ² O Main Fabric and Taped Seams before and one after cleanse Water Repellent >100cm/H ² O Main Fabric and Taped Seams before and one after cleanse	Cleanse to Care Label Only required when Waterproof properties are being claimed
Shower Resistant Claims Spray Rating	BS EN ISO 4920 Before & after one cleanse	Grade 4/5 as received Grade 4 After one Cleanse	Cleanse to Care Label Only required when Shower Resistant is being claimed
Wind Resistant Claims Air Permeability	BS EN ISO 9237	Wind Resistant <20 litres/m ² /sec Windproof :<0.1 litres/m ² /sec	Only required when Wind Resistant is being claimed
Breathability Claims Moisture Vapour Permeability	BS 7209 (16 hours)	WVP Index >65%	Only required when Breathable properties are being claimed
Thermal Resistance Outerwear	BS 4745 Single plate	Must meet Tog value being claimed	Only required when Thermal properties are being claimed
Vertical wicking of textiles	AATCC 197-11	Minimum 2.5 inches per 10 minutes	Only required when Wicking properties are being claimed
Absorbency of textiles	AATCC 79-10	Maximum 7 seconds Test original and after 20 washes	Only required when Absorbancy properties are being claimed
Anti Bacterial Claims	AATCC 147	No Bacterial Growth	Test Bacteria: Staphylococcus Aureus (ATCC6538) Test face of sample as received
IN ADDITION TO ABOVE ALL PRODUCTS TO MEET CHEMICAL COMPLIANCE FOR THE REGION IN WHICH THEY ARE SOLD			

7. NIGHTWEAR

Test Name	Test Standard	Requirements			Comments
Fibre Composition	1007/2011	No tolerance for 100% composition +/- 3% on blends			To be completed on all base material qualities once per season.
UK Nightwear Safety Regulations	1985 SI No 2043 BS 5722: 1984 BS 5438: 1976	Compliance			Nightdresses, nightshirts and dressing gowns to be of low flammability to BS 5722 All nightwear and cotton terry bathrobes shall be properly labelled as follows: <u>Pyjamas:</u> KEEP AWAY FROM FIRE <u>Night Dresses, Dressing Gowns</u> <u>Bath Robes (not cotton terry towelling) and similar garments:</u> KEEP AWAY FROM FIRE LOW FLAMMABILITY TO BS 5722 <u>Bath Robes made of cotton terry towelling only:</u> KEEP AWAY FROM FIRE
Burning behaviour of children's nightwear	BS EN 14878: 2007	Pyjamas Class B minimum Bathrobes Class A			Applicable for children's nightwear garments not covered by BS 5722
Flammability requirements for Switzerland	EN 1103	No surface flash <90mm/sec flame spread			
Flammability requirements for Netherlands	ASTM D1240	Contact 1 second <4s flame spread at 127mm			
Stability to Washing	BS EN ISO 6330:2012	0 to - 3% 0 to - 5% for Viscose & Viscose Blends			4N @ 40°C Dry per Care Label
Product Appearance after Multiple Wash	ISO 6330	Assess appearance and dimensional stability after 1 & 5 Washes 0 to - 3% 0 to - 5% for Viscose & Viscose Blends Change: 4 Cross Stain: 4/5 Sight loss of print adhesion acceptable Slight delamination or cracking of print acceptable Slight loss of flocking acceptable			Test at 4N @ 40°C Dry per Care Label
Security of Attachment	CEN/TR 16792 for graspable items greater than 3mm Annex B, for non graspable and items <3mm Annex C	70N			Test 5 of each component type and report results individually
Cords and Drawstrings	EN 14682	Must Comply			All childrenswear
Zip Fasteners	BS EN 16732	Compliance with physical performance (as appropriate)			
Buttons	BS 4162 Clause 4.5.2 Impact	Compliance to the Standard			
Peel Strength Touch and close fasteners	ISO 22777	Min 0.8 N/mm			After 5 washes
		Lightweight <100gms	Medium 100-200gms	Heavyweight >200gms	
Tensile Strength	BS EN ISO 13934 -2 Grab Method	120N	160N	200N	For Woven Fabrics Only Test in non-stretch direction only
Seam Strength	BS EN ISO 13935 -2	100N	120N	140N	For Woven Fabrics Only Test in non-stretch direction only
Seam Slippage	BS EN ISO 13936 -1	80N	100N	120N	For Woven Fabrics Only Test in non-stretch direction only Seam Open 6mm 3mm for contrast warp & weft threads
Tear Strength	BS EN 13937 - 1	700cN	800cN	900cN	For Woven Fabrics Only Test in non-stretch direction only Cellulosics & Cellulose blends



Test Name	Test Method	Requirements			Comments
Martindale Abrasion	BS EN ISO 12947 - 2	10,000 rubs	15,000 rubs	20,000 rubs	For Woven Fabrics Only 9kPa weight Shade Change not required on whites
		Shade Change @ 5000 Revs Grade 4			
Bursting Strength	BS EN ISO 13938-2	175KPa			
Spirality	ISO 16322-2 (FABRIC) ISO 16322-3 (GARMENT)	Max 5%			Circular Knits only Garments follows ISO 6330
Residual Elongation	BS EN 14704 -1 Method A	Woven: Max 5% Unrecovered Elongation Knits: Max 10% Unrecovered Elongation			Fabrics containing elastane only Wovens:30N Load Knits: 20N Load Assess after 1 and 30 minutes Test in stretch direction only
Martindale Pilling	BS EN ISO 12945 -2	2,000 revs Grade ¾			Test after one care label wash and dry. Assess against original. Report assessment at 125, 500 & 1,000 cycles with final assessment at 2,000 cycles Spun synthetics, wool, acrylic and their blends only
Accelerator	AATCC 93	Weight Loss 15% Visual Assessment 'Negligible'			Pile fabrics only 3mins Velvet @ 2000rpm 5mins Cord or Velour @ 2000rpm
Mass per Unit Area	BS EN 12127	-5%/+5%			
Nap Stability- Surface Change	BS EN ISO 12947-4: (No	@ 4,000 revs Min grade 4 change			Raised and pile fabrics only
Colour Fastness to Washing	BS EN ISO 105 -C06	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5			A2S 40°C N/A on white & cream fabrics
Colour Fastness to Dry Cleaning	BS EN ISO 105 -D01	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5			Items that are Dry Clean only N/A on white & cream fabrics
Colour Fastness to Water	BS EN ISO 105 -E01	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5			N/A on white & cream fabrics
Colour Fastness to Rubbing	BS EN ISO 105 -X12	Dry: 4 Wet: 3			N/A on white & cream fabrics
Colour Fastness to Light	BS EN ISO 105 -B02	Grade 4 @ BWS4			N/A on white & cream fabrics
Slip Resistance	TM 144	Coefficient of Friction 0.3 min			Test only if claimed on feeted garments
IN ADDITION TO ABOVE ALL PRODUCTS TO MEET CHEMICAL COMPLIANCE FOR THE REGION IN WHICH THEY ARE SOLD					

8. UNDERWEAR AND LINGERIE

Test Name	Test Standard	Requirements			Comments
Fibre Composition	1007/2011	No tolerance for 100% composition +/- 3% on blends			To be completed on all base material qualities once per season.
Stability to Washing	BS EN ISO 6330:2012	0 to - 3% 0 to - 5% for Viscose & Viscose Blends			4N @ 40°C Dry per Care Label
Product Appearance after Multiple Wash	ISO 6330	Assess appearance and dimensional stability after 1 & 5 Washes 0 to - 3% 0 to - 5% for Viscose & Viscose Blends Change: 4 Cross Stain: 4/5 Sight loss of print adhesion acceptable Slight delamination or cracking of print acceptable Slight loss of flocking acceptable			Test at 4N @ 40°C Dry per Care Label
Security of Attachment	CEN/TR 16792 for graspable items greater than 3mm Annex B, for non graspable and items <3mm Annex C	70N			Test 5 of each component type and report results individually
Cords and Drawstrings	EN 14682	Must Comply			All childrenswear
Zip Fasteners	BS EN 16732	Compliance with physical performance (as appropriate)			
Buttons	BS 4162 Clause 4.5.2 Impact	Compliance to the Standard			
Peel Strength Touch and close fasteners	ISO 22777	Min 0.8 N/mm			After 5 washes
		Lightweight <100gms	Medium 100-200gms	Heavyweight >200gms	
Tensile Strength	BS EN ISO 13934 -2 Grab Method	120N	160N	200N	For Woven Fabrics Only Test in non-stretch direction only
Seam Strength	BS EN ISO 13935 -2	100N	120N	140N	For Woven Fabrics Only Test in non-stretch direction only
Seam Slippage	BS EN ISO 13936 -1	80N	100N	120N	For Woven Fabrics Only Test in non-stretch direction only Seam Open 6mm 3mm for contrast warp & weft threads
Tear Strength	BS EN 13937 - 1	700cN	800cN	900cN	For Woven Fabrics Only Test in non-stretch direction only Cellulosics & Cellulose blends
Martindale Abrasion	BS EN ISO 12947 - 2	10,000 rubs	15,000 rubs	20,000 rubs	For Woven Fabrics Only 9kPa weight Shade Change not required on whites
		Shade Change @ 5000 Revs Grade 4			
Residual Elongation	BS EN 14704 -1 Method A	Max 5% Unrecovered Elongation			Fabrics containing elastane only 40N Load on Jeans, 30N Load on all other garment types Assess after 1 and 30 minutes Test in stretch direction only
Martindale Pilling	BS EN ISO 12945 -2	Woven 2,000 revs Knits 500 revs Grade ¼			Test after one care label wash and dry. Assess against original. Report assessment at 125, 500 & 1,000 cycles with final assessment at 2,000 cycles Spun synthetics, wool, acrylic and their blends only
Accelerator	AATCC 93	Weight Loss 15% Visual Assessment 'Negligible'			Pile fabrics only 3mins Velvet @ 2000rpm 5mins Velour @ 2000rpm
Mass per Unit Area	BS EN 12127	-5%/+5%			
Spirality	ISO 16322-2 (FABRIC) ISO 16322-3 (GARMENT)	Max 5%			Circular Knits only Garments follows ISO 6330



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Test Name	Test Standard	Requirements	Comments
Colour Fastness to Washing	BS EN ISO 105 -C06	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5	A2S 40°C N/A on white & cream fabrics
Colour Fastness to Water	BS EN ISO 105 -E01	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5	N/A on white & cream fabrics
Colour Fastness to Rubbing	BS EN ISO 105 -X12	Dry: 4 Wet: 3	N/A on white & cream fabrics
Colour Fastness to Light	BS EN ISO 105 -B02	Grade 4 @ BWS4	N/A on white & cream fabrics
Phenolic Yellowing	BS EN ISO X18	Change Grade 4	Test all pale shades and product with foam cups
Thermal Properties	BS4745	Must meet tog rating being claimed	Only required when Thermal properties are being claimed
IN ADDITION TO ABOVE ALL PRODUCTS TO MEET CHEMICAL COMPLIANCE FOR THE REGION IN WHICH THEY ARE SOLD			
PLEASE NOTE PRODUCT WITH ADHESIVE TAPE MUST HAVE A TOXICOLOGY REVIEW TO ENSURE ADHESIVE IS SAFE			

9. SOCKS AND HOSIERY

Test Name	Test Standard	Requirements	Comments
Fibre Composition	1007/2011	No tolerance for 100% composition +/- 3% on blends	To be completed on all base material qualities once per season.
Stability to Washing for Socks	BS EN ISO 6330	Leg & Foot Length 0 to -10% Must fit appropriate TS sock board before & after wash	4N @ 40°C Dry per Care Label
Product Appearance after Multiple Wash	ISO 6330	Assess appearance and dimensional stability after 1 & 5 Washes 0 to - 3% 0 to - 5% for Viscose & Viscose Blends Change: 4 Cross Stain: 4/5 Sight loss of print adhesion acceptable Slight delamination or cracking of print acceptable Slight loss of flocking acceptable	Test at 4N @ 40°C Dry per Care Label
Security of Attachment	CEN/TR 16792 for graspable items greater than 3mm Annex B, for non graspable and items <3mm Annex C	70N	Test 5 of each component type and report results individually
Cords and Drawstrings	EN 14682	Must Comply	All childrenswear
Peel Strength Touch and close fasteners	ISO 22777	Min 0.8 N/mm	After 5 washes
Residual Elongation	BS EN 14704 -1 Method A	Max 5% Unrecovered Elongation	Containing elastane only 15N Load Assess after 1 and 30 minutes Test in stretch direction only
Abrasion of Knitted Footwear garments – modified Martindale	BS EN 13770 Method 1	Describe appearance and breakdown with the number of rubs ie ‘Thinning’ or ‘Holing’ 8,000 rubs for all compositions	Socks Only Test Sole Only
Colour Fastness to Washing	BS EN ISO 105 -C06	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5	A2S 40°C N/A on white & cream fabrics
Colour Fastness to Water	BS EN ISO 105 -E01	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5	N/A on white & cream fabrics
Colour Fastness to Rubbing	BS EN ISO 105 -X12	Dry: 4 Wet: 3	N/A on white & cream fabrics
Slip Resistance	TM 144	Coefficient of Friction 0.3 min	Test only if claimed
Thermal Properties	BS4745	Must meet tog rating being claimed	Only required when Thermal properties are being claimed
Anti Bacterial Claims: Parallel Streak Method	AATCC 147	No Bacterial Growth	Test Bacteria: Staphylococcus Aureus (ATCC6538) Test face side of sample as received
IN ADDITION TO ABOVE ALL PRODUCTS TO MEET CHEMICAL COMPLIANCE FOR THE REGION IN WHICH THEY ARE SOLD			

10. DISGUISE COSTUMES AND DRESS UP

Test Name	Test Standard	Requirements			Comments
Fibre Composition	1007/2011	No tolerance for 100% composition +/- 3% on blends			To be completed on all base material qualities once per season.
Product Appearance after Multiple Wash	ISO 6330	Assess appearance and dimensional stability after 1 & 5 Washes 0 to - 3% 0 to - 5% for Viscose & Viscose Blends Change: 4 Cross Stain: 4/5 Sight loss of print adhesion acceptable Slight delamination or cracking of print acceptable Slight loss of flocking acceptable			Test at 4N @ 40°C Dry per Care Label
Product Appearance after Multiple Dry Clean	Commercial Process	Assess appearance and dimensional stability after 1 & 3 Dry Clean Cycles 0 to - 3% 0 to - 5% for Viscose & Viscose Blends Change: 4 Cross Stain: 4/5 Sight loss of print adhesion acceptable Slight delamination or cracking of print acceptable Slight loss of flocking acceptable			
Security of Attachment	CEN/TR 16792 for graspable items greater than 3mm Annex B, for non graspable and items <3mm Annex C	70N			Test 5 of each component type and report results individually
Cords and Drawstrings	EN 14682	Must Comply			All childrenswear
Zip Fasteners	BS EN 16732	Compliance with physical performance (as appropriate)			
Buttons	BS 4162 Clause 4.5.2 Impact	Compliance to the Standard			
Peel Strength Touch and close fasteners	ISO 22777	Min 0.8 N/mm			After 5 washes
		Lightweight <100gms	Medium 100-200gms	Heavyweight >200gms	
Tensile Strength	BS EN ISO 13934 -2 Grab Method	120N	160N	200N	For Woven Fabrics Only Test in non-stretch direction only
Seam Strength	BS EN ISO 13935 -2	100N	120N	140N	For Woven Fabrics Only Test in non-stretch direction only
Seam Slippage	BS EN ISO 13936 -1	80N	100N	120N	For Woven Fabrics Only Test in non-stretch direction only Seam Open 6mm 3mm for contrast warp & weft threads
Tear Strength	BS EN 13937 - 1	700cN	800cN	900cN	For Woven Fabrics Only Test in non-stretch direction only Cellulosics & Cellulose blends
Martindale Abrasion	BS EN ISO 12947 - 2	10,000 rubs	15,000 rubs	20,000 rubs	For Woven Fabrics Only 9kPa weight Shade Change not required on whites
		Shade Change @ 5000 Revs Grade 4			
Colour Fastness to Washing	BS EN ISO 105 -C06	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5			A2S 40°C N/A on white & cream fabrics
Colour Fastness to Water	BS EN ISO 105 -E01	Change: 4 Stain: 4 Cross Stain: 4/5 Neon/Fluorescent shades Change: 3 Stain: 3 Cross Stain: 4/5			N/A on white & cream fabrics
Colour Fastness to Rubbing	BS EN ISO 105 -X12	Dry: 4 Wet: 3			N/A on white & cream fabrics



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Test Name	Test Standard	Requirements	Comments
Physical & mechanical	EN 71-1	Must Comply	
Flammability Test	EN 71-2	Must Comply	Item to be labelled as sponge clean only
Flammability	BRC Modified EN71-2 Test	Must Comply	
Flammability	EN71-2	Must Comply	
CE Mark	2009/48/EC	Must Comply	
Toy Labeling	2009/48/EC	Must Comply	
Migration of certain elements	EN 71-3	Must Comply	
N-Nitrosamines and N-Nitrosatable Substances	EN 71-12	Must Comply	Under 3 toys or intended put into mouth toys
Flame retardants TCEP, TDCP, TCPP	2009/48/EC	Must Comply	Under 3 toys or intended put into mouth toys
Bisphenol A (BPA)	2009/48/EC	Must Comply	Under 3 toys or intended put into mouth toys
SCCP	POP	Must Comply	Test on high risk materials: PVC, soft plastics, rubber, genuine & synthetic leather
HBCDD	POP	Must Comply	Test on high risk materials: XPS, EPS foam

IN ADDITION TO ABOVE ALL PRODUCTS TO MEET CHEMICAL COMPLIANCE FOR THE REGION IN WHICH THEY ARE SOLD

11. CHEMICAL COMPLIANCE UK AND EU

Follow most current recommendations of AFIRM list

[AFIRM Restricted Substances List \(RSL\)](#)



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Date	Version	Amendment
5/6/26	2	Complete update of existing manual V1