

Boken Standard (Textile Products) Fabrics and Garments Performance Standards - Excerpted Version -

◎ :Mandatory tests ○ :Mandatory tests depending on fabrics and use

In principle, test all colors for colorfastness and formaldehyde testing, and test one color for each style number, design and material for fiber content, physical property, dimensional change and garment testing. (Formaldehyde is excluded.)

White and gray fabrics may exclude the color fastness test unless the fabric has a possibility of color and/or feeling change.

TEST ITEM		TEST METHOD		REQUIREMENT				Remarks		
				Men's wear	Women's and Children's wear	Shirts and blouses	Sweaters			
Fiber Content (Fiber Identification)		JIS L 1030		◎ ---	◎ ---	◎ ---	◎ ---	Apply to items required by law. Conduct fiber identification when it is suitable. Exclude from judgment of pass or fail.		
COLOR FASTNESS	Light	min. Grade	JIS L 0842 Exposure Method 3	◎ 4 (3)	◎ 4 (3)	◎ 3	◎ 3	Value in () applies to pale shades. Exclude yellowing due to fluorescent brightener from judgment of pass or fail.		
	Washing	min. Grade	JIS L 0844 No. A-1 or A-2	Change in color	4	4	4	4	Apply to items labeled with "water washing" or "wet cleaning".	
				Staining	○ 3 - 4 (3) [4]	○ 3 - 4 (3) [4]	○ 3 [4]	○ 3 - 4 [4]	Exclude change in color due to fluorescent optical brightener from judgment of pass or fail.★ Value in () applies to denim. Value in [] applies to fabrics with assorted colors of deep and pale shades. 【Reference】 Liquid contamination: ≥ Grade 3	
				Bleeding	4 - 5	4 - 5	4 - 5	4 - 5		
	Perspiration	min. Grade	JIS L 0848 Acid solution and Alkali solution	Change in color	4	4	4	4	Value in () applies to fabrics with 50 % or more wool and silk.	
				Staining	◎ 3 - 4 (3) [4]	◎ 3 - 4 (3) [4]	◎ 3 - 4 (2 - 3) [4]	◎ 3 - 4 (3) [4]	Value in [] applies to fabrics with assorted colors of deep and pale shades.	
				Bleeding	4 - 5	4 - 5	4 - 5	4 - 5		
	Rubbing	min. Grade	JIS L 0849	Type II	Dry	◎ 4 (3 - 4) < 3 >	◎ 4 (3 - 4) < 3 >	◎ 4 (3 - 4) < 3 >	◎ 4 (3 - 4)	Value in () applies to fabrics with special prints, raising or deep shades.
					Wet	◎ 2 - 3 (2) < 1 - 2 >	◎ 2 - 3 (2) < 1 - 2 >	◎ 2 - 3 (2) < 1 - 2 >	◎ 2 - 3 (2)	Value in < > applies to denim, velveteen and corduroy.
	Dry Cleaning	min. Grade	JIS L 0860 Method A-1 (Perchloroethylene) or Method B-1 (Petroleum-base)	Change in color	4	4	4	4	Apply to items labeled with dry cleaning.	
Staining				○ 3 - 4 [4]	○ 3 - 4 [4]	○ 3 - 4 [4]	○ 3 - 4 [4]	Value in [] applies to fabrics with assorted colors of deep and pale shades. 【Reference】 Liquid contamination: ≥ Grade 3		
Bleeding				4 - 5	4 - 5	4 - 5	4 - 5			
Oxygen bleach	min. Grade	JIS L 0889	Change in color	4	4	4	4	Apply to water-washing items.		
Bleeding	min. Grade	Daimaru Method (Method I)	Staining	○ 4 - 5	○ 4 - 5	○ 4 - 5	○ 4 - 5	Apply to fabrics with assorted colors of deep and pale shades.		
Perspiration and Light	min. Grade	JIS L 0888 Method B ATTS perspiration solution (acid/alkaline)	Change in color	3	3	3	3	Apply to sportswear and caps/hats with 50% or more cellulosic fiber.		
PHYSICAL PROPERTY	Tensile Strength	min. N	JIS L 1096 Method A (Strip Method)	250 (200)	200 (150)	200 (150)	---	Apply to woven fabrics. Value in () applies to thin fabrics.		
	Tear Strength	min. N	JIS L 1096 Method D (Pendulum Method)	○ 13 (10)	○ 10 (7)	○ 10 (7)	---	Apply to woven fabrics. Value in () applies to thin fabrics.		
	Bursting Strength	min. kPa	JIS L 1096 Method A (Mullen Type Method)	○ 400 (300)	○ 400 (300)	○ 400 (300)	○ 400 (300)	Apply to Knitted fabrics. Value in () applies to thin fabrics.		
	Slippage Resistance	max. mm	JIS L 1096 Method B (Seam Slipping Method)	○ 3	○ 3	○ 3	---	Apply to woven fabrics. Load applied: Thick fabrics...117.7N, Thin fabrics...49.0N		
	Pilling	min. Grade	JIS L 1076 Method A (ICI Type Method)	3	3	3	3 (2.5)	Woven fabrics: 10 hours, Knitted fabrics: 5 hours Value in () applies to raised and woolen fabrics.		
	Pile Retention	min. %	JIS L 1075 Method A (Universal Type Method)	○ 60	○ 60	○ 50	---	Apply to velveteen and corduroy.		
	Water Repellency	min. Grade	JIS L 1092 Spray Method	Original/After wash or dry cleaning	○ 2/2	○ 2/2	---	---	Apply to items labeled with water repellency.	
	Water resistance	mm or over	JIS L 1092 Hydrostatic pressure method Method A(Low hydraulic pressure method)	300	300	---	---	Apply to rainwears, diaper cover or bedding such as waterproof sheets.		
	Air Permeability	max. cm ³ /cm ² ·S	JIS L 1096 Method A (Frazier Type Method)	3	3	---	---	Apply to feathers.		
	Padding Penetration		Boken Method BQE A 012	Yes (Not noticeable.)	○ Yes (Not noticeable.)	○ Yes (Not noticeable.)	---	---	Apply to padding such as wool and synthetic fiber.	
				No (n < 10 cm)	○ No (n < 10 cm)	○ No (n < 10 cm)	---	---	Apply to padding such as wool and synthetic fiber.	
	Surface Flash		JIS L 1917	Flame spread	Yes (10cm ≤ n < 20cm)	○ Yes (10cm ≤ n < 20cm)	○ Yes (10cm ≤ n < 20cm)	○ Yes (10cm ≤ n < 20cm)	Apply to raised items with cellulosic fiber of 50% or more. Pass Caution needed (Fail) ... Need warnings. Caution needed (Fail) ... Need warnings.	
					Yes (Take 1 second or more to 20cm)	○ Yes (Take 1 second or more to 20cm)	○ Yes (Take 1 second or more to 20cm)	○ Yes (Take 1 second or more to 20cm)	Apply to fabrics with raising, chenille yarn or animal fiber blended.	
Fluff Adherence	min. Grade	Boken Method BQE B 014	3	3	3	3	Apply to fabrics with raising, chenille yarn or animal fiber blended.			
Abrasion resistance	times or over	JIS L 1096 Method E (Martindale method)	Thick fabric	20000	20000	20000	---	Apply to items made of wool or hair.		
			Thin fabric	10000	10000	10000	---			
DIMENSIONAL CHANGE	Home Laundering Method	%	JIS L 1930 Washing: according to care symbols When not determined, Method C4M Drying: according to care symbols When not determined, Place priority to tumble.	Line dry	Woven fabric	○ - 4 to + 2※	○ - 4 to + 2※	○ - 4 to + 2※	---	Apply to items labeled with water washing. ※Exclude fabrics with recovery force in traverse direction (rib stitch, crepe, etc.) from pass/fail judgment. Reject items with noticeable appearance change.
					Knitted fabric	○ - 5 to + 2	○ - 5 to + 2	○ - 6 to + 2	○ - 6 to + 2	
					Wale Course	○ - 5 to + 2※	○ - 5 to + 2※	○ - 7 to + 2※	○ - 7 to + 2※	
				Tumble	Woven fabric	○ - 5 to + 2※	○ - 5 to + 2※	○ - 5 to + 2※	---	
					Knitted fabric	○ - 8 to 0	○ - 8 to 0	○ - 8 to 0	○ - 8 to 0	
					Warp Weft	○ - 10 to 0※	○ - 10 to 0※	○ - 10 to 0※	○ - 10 to 0※	
	Flat dry	Knitted fabric	○ - 7 to + 2	○ - 7 to + 2	○ - 7 to + 2	○ - 7 to + 2				
		Wale Course	○ - 8 to + 2※	○ - 8 to + 2※	○ - 8 to + 2※	○ - 8 to + 2※				
	Dry Cleaning Method	%	JIS L 1096 Method J-1 or J-2	Woven fabric	○ ± 3※	○ ± 3※	○ ± 3※	---	Apply to items labeled with dry cleaning. (Exclude items labeled with water washing from this testing.) ※Exclude fabrics with recovery force in traverse direction (rib stitch, crepe, etc.) from pass/fail judgment. Reject items with noticeable appearance change.	
				Knitted fabric	○ ± 3※	○ ± 3※	○ ± 3※	○ ± 3※		
Wet Cleaning Method	%	JIS L 1931-4	Woven fabric	○ ±3※	○ ±3※	○ ±3※	---	Apply to items labeled with "wet cleaning". (Omit items labeled with "water washing".) ※Exclude fabrics with recovery force in traverse direction (rib stitch, crepe, etc.) from pass/fail judgment. Reject items with noticeable appearance change.		
			Knitted fabric	○ ±3※	○ ±3※	○ ±3※	○ ±3※			

* ※ When change in color due to fluorescent brightener is grade 3 - 4 or below, warnings such as "Use detergent without fluorescent brightener" shall be included in the care instructions.

○ 【Reference】 " shall exclude from judgment of pass or fail.

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In principle, test all colors for colorfastness and formaldehyde testing, and test one color for each style number, design and material for fiber content, physical property, dimensional change and garment testing. (Formaldehyde is excluded.)

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TEST ITEM	TEST METHOD	REQUIREMENT				REMARKS							
		Men's wear	Women's and Children's wear	Shirts and blouses	Sweaters								
Certain aromatic amines	<Textile products> The revision of Ordinance of the Ministry of Health, Labour and Welfare No. 34 or JIS L 1940-1&-3, ISO24362-1&-3	○ 30	○ 30	○ 30	○ 30	Apply to items regulated by law Certain aromatic amines 24 substances <Leather products> The revision of Ordinance of the Ministry of Health, Labour and Welfare No. 34 or ISO17234-1&-2							
LABELLING	Fiber Content	◎ Must be appropriate.	◎ Must be appropriate.	◎ Must be appropriate.	◎ Must be appropriate.	Exclude size labeling from judgment of pass/fail							
	Care Instructions	◎ Must be appropriate.	◎ Must be appropriate.	◎ Must be appropriate.	◎ Must be appropriate.								
	Size	◎ Must be appropriate.	◎ Must be appropriate.	◎ Must be appropriate.	◎ Must be appropriate.								
	Country of Origin	◎ Must be appropriate.	◎ Must be appropriate.	◎ Must be appropriate.	◎ Must be appropriate.								
APPEARANCE	Appearance and Sewing	◎ Must meet requirements.	◎ Must meet requirements.	◎ Must meet requirements.	◎ Must meet requirements.	Apply to items labeled with water washing.							
	Appearance and Sewing	○ No defects.	○ No defects.	○ No defects.	○ No defects.								
WASHING RESISTANCE	Change in Color	min. Grade	JIS L 1930	○ 4	○ 4	○ 4	○ 4	Value in () applies to slit, front opening, pattern in a longitudinal direction, etc. ※Exclude fabrics with recovery force in traverse direction (rib stitch, crepe, etc.) from pass/fail judgment. * Dimensional change for neck band length of dress shirt shall be within ± 1.5%.					
	Bleeding	min. Grade	Washing: according to care symbols	○ 4 - 5	○ 4 - 5	○ 4 - 5	○ 4 - 5						
	Puckering	min. Grade	Drying: according to care symbols	○ 3	○ 3	○ 3	○ 3						
	Bias Filling after Washing	max. %	Place priority to tumble.	○ 7 (5)	○ 7 (5)	○ 7 (5)	○ 7 (5)						
	Dimensional Change	%			Line dry	Woven fabric	○ - 3 to + 1※		○ - 3 to + 1※	○ - 4 to + 1※ *	---		
						Knitted fabric	Wale		○ - 4 to + 2	○ - 4 to + 2	○ - 6 to + 2	○ - 6 to + 2	
					Tumble	Woven fabric	○ - 5 to + 2※		○ - 5 to + 2※	○ - 7 to + 2※	○ - 7 to + 2※	○ - 7 to + 2※	○ - 7 to + 2※
						Knitted fabric	Warp		○ - 8 to 0	○ - 8 to 0	○ - 8 to 0	○ - 8 to 0	
					Flat dry	Knitted fabric	Weft		○ - 10 to 0※	○ - 10 to 0※	○ - 10 to 0※	○ - 10 to 0※	
						Knitted fabric	Wale		○ - 7 to + 2	○ - 7 to + 2	○ - 7 to + 2	○ - 7 to + 2	
Course	○ - 8 to + 2※	○ - 8 to + 2※	○ - 8 to + 2※	○ - 8 to + 2※									
REPEATED WASHING RESISTANCE	Appearance Change			○ No defects.	○ No defects.	○ No defects.	○ No defects.	Apply to fabrics with coating, flock finish, bonding finish and special prints (pigment, rubber printing, transfer printing, foam printing, lame), etc.					
	Change in Color	min. Grade	JIS L 1930 Method C4M Line dry	After 1st washing	○ 4	○ 4	○ 4						
	Bleeding	min. Grade		After 5th washing	○ 3	○ 3	○ 3						
DRY CLEANING RESISTANCE	Appearance and Sewing			○ No defects.	○ No defects.	○ No defects.	○ No defects.	Apply to items labeled with dry cleaning. (Exclude items labeled with water washing from this testing.)					
	Change in Color	min. Grade	JIS L 1931-2 Method P2	○ 4	○ 4	○ 4	○ 4						
	Bleeding	min. Grade	JIS L 1931-3 Method F2	○ 4 - 5	○ 4 - 5	○ 4 - 5	○ 4 - 5						
	Puckering	min. Grade		○ 3	○ 3	○ 3	○ 3						
	Bias Filling after Washing	max. %		○ 5 (3)	○ 5 (3)	○ 5 (3)	○ 5 (3)						
	Dimensional Change	%			Woven fabric	○ ±3※	○ ±3※		○ ±3※	○ ±3※			
Knitted fabric					○ ±3※	○ ±3※	○ ±3※	○ ±3※					
REPEATED DRY CLEANING RESISTANCE	Appearance Change			○ No defects.	○ No defects.	○ No defects.	○ No defects.	Apply to fabrics with coating, flock finish, bonding finish and special prints (pigment, rubber printing, transfer printing, foam printing, lame), etc.					
	Change in Color	min. Grade	JIS L 1931-2 Method P2	After 1st dry cleaning	○ 4	○ 4	○ 4						
	Bleeding	min. Grade	JIS L 1931-3 Method F2	After 3rd dry cleaning	○ 3	○ 3	○ 3						
WET CLEANING RESISTANCE	Appearance and Sewing			○ No abnormality	○ No abnormality	○ No abnormality	○ No abnormality	Apply to items labeled with "wet cleaning". (Omit items labeled with "water washing".)					
	Change in Color	min. Grade	JIS L 1931-4 according to care symbols.	○ 4	○ 4	○ 4	○ 4						
	Bleeding	min. Grade		○ 4 - 5	○ 4 - 5	○ 4 - 5	○ 4 - 5						
	Puckering	min. Grade		○ 3	○ 3	○ 3	○ 3						
	Garment twist after Washing	max. %		○ 5 (3)	○ 5 (3)	○ 5 (3)	○ 5 (3)						
	Dimensional change	%			Woven fabric	○ ±3※	○ ±3※		○ ±3※	○ ±3※			
Knitted fabric					○ ±3※	○ ±3※	○ ±3※	○ ±3※					
IRONING RESISTANCE	Appearance		Based on JIS L 1057.8.1		No abnormality	No abnormality	No abnormality						
	Change in color	min. Grade	Testing temperature is shown in care symbols.	○ 4	○ 4	○ 4	○ 4						
Safety of children's clothing	Requirements for Cords and drawstrings attached to children's clothing	JIS L 4129		---	Shall be conformed	Shall be conformed	Shall be conformed	Apply to children's clothing (younger and elder)					

CATEGORY	ITEM
Men's wear	Coats, Suits, Jackets, Pants, etc.
Women's and Children's wear	Coats, Suits, Jackets, Dresses, Skirts, Pants, etc.
Shirts and blouses	Casual shirts, Dress shirts, Blouses, Sports shirts, Polo shirts, T-shirts, Training shirts, etc.
Sweaters	Knitted sweaters, Cardigans, Vests, etc.
Night wear and Undergarments	Pajamas, Negligees, Undergarments, Lingerie, Foundation garments, etc.

CATEGORY	ITEM
Babies' wear and Small products	Babies' wear (Outer garments, Intermediate garments, Undergarments, etc.), Small products (Towels, Bibs, Mittens, Hosiery, etc.) Note: Swimming wear for babies apply to "Swimming Wear".
Towels and Small products	Towels, Bath towels, Handkerchiefs, Scarves, Neckties, Hosiery, Gloves, Caps/Hats, etc.
Bedding and Furnishings	Bedding (Bed sheets and spreads, Blankets, Summer quilts, Futons, Bedding for babies, etc.), Furnishings (Curtains, Carpets, Rugs, Bath mats, etc.)

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In principle, test all colors for colorfastness and formaldehyde, and test one color for each style number, design and material for fiber content, physical property and dimensional change and carry out garment testing. (Formaldehyde is excluded.)

White and gray fabrics can be excluded from the color fastness test unless the fabric has a possibility of color and/or feeling change (hand).

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TEST ITEM		TEST METHOD		REQUIREMENT				Remarks		
				Night wear and Undergarments	Babies wear and Small products	Towels and Small products	Bedding and Furnishings			
Fiber Content (Fiber Identification)		JIS L 1030		◎	◎	◎	◎	Apply to items required by law. Conduct fiber identification when it is suitable. Exclude from judgment of pass or fail.		
COLOR FASTNESS	Light	min. Grade	JIS L 0842 Exposure Method 3	◎	◎	◎	◎	Exclude yellowing due to fluorescent brightener from judgment of pass or fail. * Exclude Underwear, lingerie, foundation garments and hosiery from testing.		
				3 *	3 *	3 *	3 < Curtain 4 >			
	Washing	min. Grade	JIS L 0844 No. A-1 or A-2	Change in color	◎	○	○	○	Apply to items labeled with "water washing" or "wet cleaning". Exclude change in color due to fluorescent optical brightener from pass/fail judgment.★ Value in [] applies to fabrics with assorted colors of deep and pale shades. 【Reference】 Liquid contamination: ≥ Grade 3	
				Staining	3 [4]	3 [4]	3 [4]	3 [4]		
				Bleeding	4 - 5	4 - 5	4 - 5	4 - 5		
	Perspiration	min. Grade	JIS L 0848 Acid solution and Alkali solution	Change in color	◎	◎	◎	○	* Apply to bedding. Value in () applies to fabrics with 50 % or more wool and silk. Value in [] applies to fabrics with assorted colors of deep and pale shades.	
				Staining	3 (2 - 3) [4]	3 (2 - 3) [4]	3 (2 - 3) [4]	3 (2 - 3) [4]		
				Bleeding	4 - 5	4 - 5	4 - 5	4 - 5		
	Rubbing	min. Grade	JIS L 0849	Type II	Dry	◎	◎	◎	Value in () applies to fabrics with special prints, raising or deep shades. Value in << >> applies to denim, velveteen and corduroy.	
					Wet	4 (3 - 4)	4 (3 - 4) <<3 >>	4 (3 - 4) <<3 >>		4 (3 - 4) <<3 >>
Dry Cleaning	min. Grade	JIS L 0860 Method A-1 (Perchloroethylene) or Method B-1 (Petroleum-base)	Change in color	○	○	○	○	Apply to dry cleaning instructions. Value in [] applies to fabrics with assorted colors of deep and pale shades. 【Reference】 Liquid contamination: ≥ Grade 3		
			Staining	3 - 4 [4]	3 - 4 [4]	3 - 4 [4]	3 - 4 [4]			
			Bleeding	4 - 5	4 - 5	4 - 5	4 - 5			
Oxygen bleach	min. Grade	JIS L 0889	Change in color	◎	◎	◎	◎	Apply to water washing items.		
Bleeding	min. Grade	Daimaru Method (Method I)	Staining	○	○	○	○	Apply to fabrics with assorted colors of deep and pale shades.		
Perspiration and Light	min. Grade	JIS L 0888 Method B ATTS perspiration solution (acid/alkaline)	Change in color	○	○	○	○	Apply to sportswear and caps/hats with 50% or more cellulosic fiber.		
PHYSICAL PROPERTY	Tensile Strength	min. N	JIS L 1096 Method A (Strip Method)	◎	◎	○	○	Apply to woven fabrics. Value in () applies to thin fabrics. Value in << >> applies to blankets and towel clothes.		
	Tear Strength	min. N	JIS L 1096 Method D (Pendulum Method)	○	○	○	○	Apply to woven fabrics. Value in () applies to thin fabrics. * Towel clothes are excluded from testing.		
	Bursting Strength	min. kPa	JIS L 1096 Method A (Mullen Type Method)	○	○	○	○	Apply to Knitted fabrics. Value in () applies to thin fabrics.		
	Slippage Resistance	max. mm	JIS L 1096 Method B (Seam Slipping Method)	○	○	○	○	Apply to woven fabrics. Load applied: Thick fabrics...117.7N, Thin fabrics...49.0N		
	Pilling	min. Grade	JIS L 1076 Method A (ICI Type Method)	◎	◎	◎	◎	Woven fabrics: 10 hours, Knitted fabrics: 5 hours Value in () applies to raised and woolen fabrics.		
	Pile Retention	min. %	JIS L 1075 Method A (Universal Type Method)	◎	◎	◎	◎	Apply to velveteen and corduroy.		
		min. N	JIS L 1075 Method B (Tensile Testing Machine Method)	◎	◎	◎	◎	Apply to towel cloth (loop pile).		
	Water Repellency	min. Grade	JIS L 1092 Spray Method	Original/After wash or dry cleaning	◎	◎	◎	Apply to water repellency disclosures.		
	Water resistance	mm or over	JIS L 1092 Hydrostatic pressure method Method A(Low hydraulic pressure method)	◎	◎	◎	◎	Apply to rainwears, diaper cover or bedding such as waterproof sheets.		
	Air Permeability	max. cm ³ /cm ² ·S	JIS L 1096 Method A (Frazier Type Method)	◎	◎	◎	◎	Apply to feathers.		
		◎	◎	◎	◎	◎	◎	Apply to padding such as wool and synthetic fiber.		
	Padding Penetration	◎	Boken Method BQE A 012	◎	◎	◎	◎	Apply to padding such as feathers, wool and synthetic fiber.		
	Fluff Loss	max. %	Boken Method BQE A 013	◎	◎	◎	◎	Apply to towel cloth, bath mats and washable carpets.		
	Surface Flash	◎	JIS L 1917	Flame spread	No (n < 10cm)	◎	◎	◎	◎	Apply to raised items with cellulosic fiber of 50% or more. Pass Caution needed (Fail) ... Need warnings. Caution needed (Fail) ... Need warnings.
					Yes (10cm ≤ n < 20cm)	◎	◎	◎	◎	
Yes (Take 1 second or more to 20cm)					◎	◎	◎	◎		
Fluff Adherence	min. Grade	Boken Method BQE B 014	◎	◎	◎	◎	Apply to fabrics with raising, chenille and animal fiber blended.			
Abrasion Resistance	min. Cycle	JIS L 1096 Method F-1 (Uniform Type Method)	◎	◎	◎	◎	Apply to hosiery.			
Water Absorbency	max. Second	JIS L 1907 Sedimentation Method	◎	◎	◎	◎	Apply to bath mats and towels with pile or loop pile. 【Reference】 For materials over 60 seconds, report data by Method C4M. (1 wash, Line dry)			
	max. Second	JIS L 1907 Instillation Method	◎	◎	◎	◎	Apply to towels and bath mats without pile or loop pile. 【Reference】 For materials over 10 seconds, report data of Method C4M. (1 wash, Line dry)			
DIMENSIONAL CHANGE	Home Laundering Method	%	JIS L 1930 Washing: according to care symbols When not determined, Method C4M Drying: according to care symbols When not determined, Place priority to tumble.	Line dry	Woven fabric	◎	◎	◎	◎	Apply to items labeled with water washing. ※Exclude fabrics with recovery force in traverse direction (rib stitch, crepe, etc.) from pass/fail judgment. Reject items with noticeable appearance change.
					Knitted fabric	◎	◎	◎	◎	
				Tumble	Woven fabric	◎	◎	◎	◎	
					Knitted fabric	◎	◎	◎	◎	
				Flat dry	Woven fabric	◎	◎	◎	◎	
					Knitted fabric	◎	◎	◎	◎	
	Dry Cleaning Method	%	JIS L 1096 Method J-1 or J-2	Woven fabric	○	○	○	○	Apply to items labeled with dry cleaning. (Exclude items labeled with water washing from this testing.) ※Exclude fabrics with recovery force in traverse direction (rib stitch, crepe, etc.) from pass/fail judgment. Reject items with noticeable appearance change.	
				Knitted fabric	○	○	○	○		
	Wet Cleaning Method	%	JIS L 1931-4	Woven fabric	○	○	○	○	Apply to items labeled with "wet". (Omit items labeled with "water washing".) ※Exclude fabrics with recovery force in traverse direction (rib stitch, crepe, etc.) from pass/fail judgment. Reject items with noticeable appearance change.)	
				Knitted fabric	○	○	○	○		

* When change in color due to fluorescent brightener is grade 3 - 4 or below, warnings such as "Use detergent without fluorescent brightener" shall be included in the care instructions.

.. 【Reference】 shall exclude from judgment of pass or fail.

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TEST ITEM	TEST METHOD		REQUIREMENT				REMARKS			
			Night wear and Undergarments	Babies wear and Small products	Towels and Small products	Bedding and Furnishings				
FORMALDEHYDE	max. A-Ao	Ministry of Health and Welfare Ordinance No. 34	---	◎ 0.05	---	◎ 0.05	Apply to items regulated by law. Test all colors. Test all parts separately.			
	max. µg/g		---	16	---	16				
	max. µg/g		◎ 75	---	◎ 75	---				
Certain aromatic amines	µg/g (mg/kg) or lower	<Textile products> The revision of Ordinance of the Ministry of Health, Labour and Welfare No. 34 or JIS L 1940-1&-3, ISO24362-1&-3	○ 30	○ 30	○ 30	○ 30	Apply to items regulated by law Certain aromatic amines 24 substances <Leather products> The revision of Ordinance of the Ministry of Health, Labour and Welfare No. 34 or ISO17234-1&-2			
LABELING	Fiber Content	Household Goods Quality Labeling Act	◎ Must be appropriate.	◎ Must be appropriate.	◎ Must be appropriate.	◎ Must be appropriate.	Exclude size labeling from judgment of pass/fail			
	Care Instructions	Household Goods Quality Labeling Act	◎ Must be appropriate.	◎ Must be appropriate.	◎ Must be appropriate.	◎ Must be appropriate.				
	Size	JIS, etc.	◎ Must be appropriate.	◎ Must be appropriate.	◎ Must be appropriate.	◎ Must be appropriate.				
	Country of Origin	Act against Unjustifiable Premiums and Misleading Representations	◎ Must be appropriate.	◎ Must be appropriate.	◎ Must be appropriate.	◎ Must be appropriate.				
APPEARANCE	Appearance and Sewing	Boken Sewing Performance Standard	◎ Must meet requirements.	◎ Must meet requirements.	◎ Must meet requirements.	◎ Must meet requirements.				
WASHING RESISTANCE	Appearance and Sewing	JIS L 1930 Washing: according to care symbols Drying: according to care symbols lace priority to tumble.	◎ No defects.	○ No defects.	○ No defects.	○ No defects.	Apply to items labeled with water washing. Value in () applies to slit, front opening, pattern in a longitudinal direction, etc. ※Exclude fabrics with recovery force in traverse direction (rib stitch, crepe, etc.) from pass/fail judgment. Reject items with the hinderance to appearance or wearing.			
	Change in Color		min. Grade	◎ 4	○ 4	○ 4		○ 4		
			min. Grade	◎ 4-5	○ 4-5	○ 4-5		○ 4-5		
	Bleeding		min. Grade	◎ 3	○ 3	○ 3		○ 3		
	Puckering		min. Grade	◎ 3	○ 3	○ 3		○ 3		
	Bias Filling after Washing		max. %	◎ 7 (5)	○ 7 (5)	○ 7 (5)		○ 7 (5)		
	Dimensional Change		%	Line dry	Woven fabric	◎ -5 to +2※		○ -4 to +2※	○ -5 to +2※	○ -5 to +2
					Knitted fabric	◎ -6 to +2		○ -6 to +2	○ -6 to +2	○ -6 to +2
				Tumble	Woven fabric	◎ -8 to +2※		○ -8 to +2※	○ -8 to +2※	○ -8 to +2
					Knitted fabric	◎ -6 to +2※		○ -6 to +2※	○ -6 to +2※	○ -6 to +2
Flat dry		Woven fabric		◎ -8 to 0	○ -8 to 0	○ -8 to 0	○ -8 to 0			
		Knitted fabric		◎ -10 to 0※	○ -10 to 0※	○ -10 to 0※	○ -10 to 0			
REPEATED WASHING RESISTANCE	Appearance Change	JIS L 1930 Method C4M Line dry	○ No defects.	○ No defects.	○ No defects.	○ No defects.	Apply to fabrics with coating, flock finish, bonding finish and special prints (pigment, rubber printing, transfer printing, foam printing, lame), etc.			
	Change in Color		min. Grade	After 1st washing	○ 4	○ 4		○ 4		
			min. Grade	After 5th washing	○ 3	○ 3		○ 3		
	Bleeding		min. Grade	○ 4-5	○ 4-5	○ 4-5		○ 4-5		
DRY CLEANING RESISTANCE	Appearance and Sewing	JIS L 1931-2 Method P2 JIS L 1931-3 Method F2	○ No defects.	○ No defects.	○ No defects.	○ No defects.	Apply to items labeled with dry cleaning. (Exclude items labeled with water from this testing.) Value in () applies to slit, front opening, pattern in a longitudinal direction, etc. ※Exclude fabrics with recovery force in traverse direction (rib stitch, crepe, etc.) from pass/fail judgment. Reject items with the hinderance to appearance or wearing.			
	Change in Color		min. Grade	○ 4	○ 4	○ 4		○ 4		
			min. Grade	○ 4-5	○ 4-5	○ 4-5		○ 4-5		
	Bleeding		min. Grade	○ 3	○ 3	○ 3		○ 3		
	Puckering		min. Grade	○ 5 (3)	○ 5 (3)	○ 5 (3)		○ 5 (3)		
	Dimensional Change		%	Woven fabric	○ ±3※	○ ±3※		○ ±3※	○ ±3	
Knitted fabric		○ ±3※		○ ±3※	○ ±3※	○ ±3				
REPEATED DRY CLEANING RESISTANCE	Appearance Change	JIS L 1931-2 Method P2 JIS L 1931-3 Method F2	○ No defects.	○ No defects.	○ No defects.	○ No defects.	Apply to fabrics with coating, flock finish, bonding finish and special prints (pigment, rubber printing, transfer printing, foam printing, lame), etc.			
	Change in Color		min. Grade	After 1st dry cleaning	○ 4	○ 4		○ 4		
			min. Grade	After 3rd dry cleaning	○ 3	○ 3		○ 3		
Bleeding	min. Grade	○ 4-5	○ 4-5	○ 4-5	○ 4-5					
WET CLEANING RESISTANCE	Appearance and sewing	JIS L 1931-4 as shown in care symbols.	○ No abnormality	○ No abnormality	○ No abnormality	○ No abnormality	Apply to items labeled with "wet cleaning". (Omit items labeled with "water washing".) () applies to items with slit, front slit or pattern in vertical direction. ※Exclude fabrics with recovery force in traverse direction (rib stitch, crepe, etc.) from pass/fail judgment. Reject items with the hinderance to appearance or wearing..)			
	Change in color		min. Grade	○ 4	○ 4	○ 4		○ 4		
			min. Grade	○ 4-5	○ 4-5	○ 4-5		○ 4-5		
	Bleeding		min. Grade	○ 3	○ 3	○ 3		○ 3		
	Puckering		min. Grade	○ 5 (3)	○ 5 (3)	○ 5 (3)		○ 5 (3)		
	Dimensionak change		within () %	Woven fabric	○ ±3※	○ ±3※		○ ±3※	○ ±3	
Knitted fabric		○ ±3※		○ ±3※	○ ±3※	○ ±3				
IRONING RESISTANCE	Appearance	Based on JIS L 1057.8.1 Testing temperature is shown in care symbols.	○ No abnormality	○ No abnormality	○ No abnormality	○ No abnormality				
	Change in color		min. Grade	○ 4	○ 4	○ 4		○ 4		
Safety of children's clothing	Requirements for Cords and drawstrings attached to children's clothing	JIS L 4129	○ Shall be conformed	○ Shall be conformed	○ ---	○ ---	Apply to children's clothing (younger and elder)			

CATEGORY	ITEM
Men's wear	Coats, Suits, Jackets, Pants, etc.
Women's and Children's wear	Coats, Suits, Jackets, Dresses, Skirts, Pants, etc.
Shirts and blouses	Casual shirts, Dress shirts, Blouses, Sports shirts, Polo shirts, T-shirts, Training shirts, etc.
Sweaters	Knitted sweaters, Cardigans, Vests, etc.
Night wear and Undergarments	Pajamas, Negligees, Undergarments, Lingerie, Foundation garments, etc.

CATEGORY	ITEM
Babies' wear and Small products	Babies' wear (Outer garments, Intermediate garments, Undergarments, etc.), Small products (Towels, Bibs, Mittens, Hosiery, etc.) Note: Swimming wear for babies apply to "Swimming Wear".
Towels and Small products	Towels, Bath towels, Handkerchiefs, Scarves, Neckties, Hosiery, Gloves, Caps/Hats, etc.
Bedding and Furnishings	Bedding (Bed sheets and spreads, Blankets, Summer quilts, Futons, Bedding for babies, etc.), Furnishings (Curtains, Carpets, Rugs, Bath mats, etc.)