

Intertek Standard of High-Performance Mark for General Activewear / Athleisure Wear (International Market) - Durable (Fabric)

Durable (Fabric) (1)

		FABRIC FOR TOPS GARMENT				
PRODUCT TYPE	TEST METHOD	T SHIRTS (KNITTED)	SHIRTS AND BLOUSES (WOVEN)	SHIRTS AND BLOUSES (KNITTED)	SWEATERS AND MIDLAYERS	JACKETs AND COATS (WOVEN)
PHYSICAL PERFORMANCE (to be tested after prescribed number of washes unless specified in the test item)						
No of Washes / Drycleaning		60	60	60	30	15 / 60 (waterproof jackets)
Assessments after Washes / Drycleaning		1, 5 15, 30 and 60	1, 5 15, 30 and 60	1, 5 15, 30 and 60	1, 5, 15 and 30	1, 5 and 15 / 1, 5, 15, 30 and 60 (waterproof jackets)
Appearance After Wash / Drycleaning	Visual Exam (Comprehensive) ISO 15487 ISO 6330 (washing) or ISO 3175 (dryclean) and Intertek Assessment Table	ISO Pilling grade replica : ≥3 ISO Grey scale Colour change : Grade ≥4 Intertek Assessment Table	ISO Pilling grade replica : ≥3 ISO Greyscale Colour change Grade : ≥4 Intertek Assessment Table	ISO Pilling grade replica : ≥3 ISO Greyscale Colour change Grade : ≥4 Intertek Assessment Table	ISO Pilling grade replica : ≥3 ISO Greyscale Colour change Grade : ≥4 Intertek Assessment Table	No coating degradation or delamination of any membranes ISO Pilling grade replica : ≥3-4 ISO Greyscale Colour change Grade : ≥4 Intertek Assessment Table
Dimensional Stability to Washing / Drycleaning	ISO 6330 (washing) or ISO 3175 (dryclean) and ISO 5077	+/- 5%	+/- 3%	+/- 5%	+/- 5%	+/- 3%
Spirality	ISO 16322-2 Procedure C	≤ 5%	≤ 5%	≤ 5%	≤ 5%	≤ 5%
Tensile strength *	ISO 13934-1		<150 gsm: Warp ≥ 310N, Weft ≥200N 151 - 200gsm: Warp ≥380N, Weft ≥ 220N 201 -300 gsm: Warp ≥440N, Weft ≥270N 301 - 400gsm: Warp ≥490N, Weft 310N >400gsm: Warp ≥ 580N, Weft 380N			<150 gsm: Warp ≥ 310N, Weft ≥200N 151 - 200gsm: Warp ≥380N, Weft ≥ 220N 201 -300 gsm: Warp ≥440N, Weft ≥270N 301 - 400gsm: Warp ≥490N, Weft 310N >400gsm: Warp ≥ 580N, Weft 380N
Tear Strength *	ISO 13937-1		<70gsm: ≥ 10N 70 - 120 gsm: ≥ 12N 121 - 200 gsm: ≥14N >200gsm: ≥ 18N			< 70 gsm: ≥ 10N 70-120 gsm: ≥ 12N 121-200 gsm: ≥14N > 200 gsm: ≥ 18N
Bursting Strength *	ISO 13938-2 or ASTM D3786	≤ 180gsm: ≥ 310 kPa >180gsm: ≥ 400 kPa		≤ 180gsm: ≥ 310 kPa >180gsm: ≥ 400 kPa	≤ 180gsm: ≥ 310 kPa >180gsm: ≥ 400 kPa	
Seam Slippage *	ISO 13936-2		<220gsm: ≤6mm @ 60N ≥220gsm: ≤6mm @ 120N			< 220 gsm : ≤ 2mm @ 60N ≥ 220 gsm : ≤ 2mm @ 120N



Pilling *	ISO 12945-1 (Pilling box method) with assessment by ISO Pilling Grade replicas ISO 12945-2	After 1 & 15 washes Smooth surface : ≥Grade 3-4 Products with raised surface ≥Grade 3 10,800 cycles (180 min)	After 1 & 15 washes Smooth surface : ≥Grade 3-4 Products with raised surface ≥Grade 3 10,800 cycles (180 min)	After 1 & 15 washes Smooth surface : ≥Grade 3-4 Products with raised surface ≥Grade 3 10,800 cycles (180 min)	After 1 & 15 washes Smooth surface : ≥Grade 3-4 Products with raised surface ≥Grade 3 10,800 cycles (180 min)	After 1 & 15 washes Smooth surface : ≥Grade 3-4 Products with raised surface ≥Grade 3 10,800 cycles (180 min)
Martindale Abrasion Resistance *	ISO 12947-2					<p>≤ 245 gsm: No rupture after 12,500 cycles</p> <p>245-339 gsm: No rupture after 25,000 cycles</p> <p>> 339 gsm: No rupture after 35,000 cycles</p>
Stretch and Recovery	EN 14704-1 Method A	After 1 wash - Extension 10 % after 30 mins	After 1 wash - Extension 5 % after 30 mins	After 1 wash - Extension 5 % after 30 mins	After 1 wash - Extension 10 % after 30 mins	After 1 wash - Extension 5 % after 30 mins
		After 15 washes - 15% after 30 mins	After 15 washes - 10% after 30 mins	After 15 washes - 10% after 30 mins	After 15 washes - 15% after 30 mins	After 15 washes - 10% after 30 mins
Density/Weight *	EN 12127 / ISO 3801	Report only for bursting strength testing	Report only for seam slippage, tear and tensile strength testing	Report only for bursting strength testing	Report only for bursting strength testing	Report only for seam slippage, tear and tensile strength testing
Product waterproofness (if claimed) *	ISO 811					<p>≥ 2600 mmH²O</p> <p>Includes assessment of seams (no leaking at any seam, curve, or cross point)</p>
Fabric water repellence (if claimed) *	ISO 4920					≥ 3-4
COLOUR PERFORMANCE (to be tested in the as received state)						
Colour Fastness to Washing	ISO 105 -C06	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 3-4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5
Colour Fastness to Water	ISO 105 -E01	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 3-4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5
Colour Fastness to Perspiration *	ISO 105 -E04 or AATCC 15	*Change: 4 Stain: 4 Cross Stain: 4-5	*Change: 4 Stain: 4 Cross Stain: 4-5	*Change: 4 Stain: 3-4 Cross Stain: 4-5	*Change: 4 Stain: 4 Cross Stain: 4-5	*Change: 4 Stain: 4 Cross Stain: 4-5
Colour Fastness to Crocking *	ISO 105 -X12 or AATCC 8	Stain Dry: 4 *Wet: 4	Stain Dry: 4 *Wet: 4	Stain Dry: 3-4 *Wet: 4	Stain Dry: 4 *Wet: 4	Stain Dry: 4 *Wet: 4
Colour Fastness to Light *	ISO 105 -B02 or AATCC 16.3, Op3	Blue Reference : ≥Grade 4 144 hours of light exposure	Blue Reference : ≥Grade 4 144 hours of light exposure	Blue Reference : ≥Grade 4 144 hours of light exposure	Blue Reference : ≥Grade 4 144 hours of light exposure	Blue Reference : ≥Grade 4 144 hours of light exposure
PERFORMANCE CLAIM (to be tested in the as received state and after 60 washes unless specified in the test item)						
Performance Claim *	ISO 6330 4N wash/dry conditions based on care instructions. If tumble dry, use 10 wash / 1 dry, plus evaluation standard as per "Performance Claim" table	See "Performance Claim" table for requirement by claim type	See "Performance Claim" table for requirement by claim type	See "Performance Claim" table for requirement by claim type	See "Performance Claim" table for requirement by claim type	See "Performance Claim" table for requirement by claim type

***Test items according to Product Environmental Footprint (PEF), Duration of service "Aspirational" level requirements**



Durable (Fabric) (2)

		FABRIC FOR TOPS GARMENT		FABRIC FOR BOTTOMS GARMENT	
PRODUCT TYPE	TEST METHOD	JACKETS AND COATS (KNITTED)	PANTS AND SHORTS (KNITTED)	PANTS AND SHORTS (WOVEN)	DRESSES, SKIRTS AND JUMPSUITS (KNITTED)
PHYSICAL PERFORMANCE (to be tested after prescribed number of washes unless specified in the test item)					
No of Washes / Drycleaning		15 / 60 (waterproof jackets)	60	60	60
Assessments after Washes / Drycleaning		1, 5 and 15 / 1, 5, 15, 30 and 60 (waterproof jackets)	1, 5, 15, 30 and 60	1, 5, 15, 30 and 60	1, 5, 15, 30 and 60
Appearance After Wash / Drycleaning	Visual Exam (Comprehensive) ISO 15487 ISO 6330 (washing) or ISO 3175 (dryclean) and Intertek Assessment Table	No coating degradation or delamination of any membranes ISO Pilling grade replica : ≥ 3-4 ISO Greyscale Colour change Grade : ≥ 4 Intertek Assessment Table	No coating degradation or delamination of any membranes ISO Pilling grade replica : ≥ 3-4 ISO Greyscale Colour change Grade : ≥ 4 Intertek Assessment Table	No coating degradation or delamination of any membranes ISO Pilling grade replica : ≥ 3-4 ISO Greyscale Colour change Grade : ≥ 4 Intertek Assessment Table	ISO Pilling grade replica : ≥ 3-4 ISO Greyscale Colour change Grade : ≥ 4 Intertek Assessment Table
Dimensional Stability to Washing / Drycleaning	ISO 6330 (washing) or ISO 3175 (dryclean) and ISO 5077	+/- 5%	+/- 5%	+/- 3%	+/- 5%
Spirality	ISO 16322-2 Procedure C	≤ 5%	≤ 5%	≤ 5%	≤ 5%
Tensile strength *	ISO 13934-1			<150 gsm: Warp ≥ 310N, Weft ≥200N 151 - 200gsm: Warp ≥380N, Weft≥ 220N 201 -300 gsm: Warp ≥440N, Weft ≥270N 301 - 400gsm: Warp ≥490N, Weft 310N >400gsm: Warp ≥ 580N, Weft 380N	
Tear Strength *	ISO 13937-1			< 70 gsm: ≥ 10N 70-120 gsm: ≥ 12N 121-200 gsm: ≥14N > 200 gsm: ≥ 18N	
Bursting Strength *	ISO 13938-2 or ASTM D3786	≤ 180gsm : ≥ 310 kPa >180gsm : ≥ 400 kPa	≤ 180gsm : ≥ 310 kPa >180gsm : ≥ 400 kPa		≤ 180gsm : ≥ 310 kPa >180gsm : ≥ 400 kPa
Seam Slippage *	ISO 13936-2			< 220 gsm : ≤ 2mm @ 60N ≥ 220 gsm : ≤ 2mm @ 120N	
Pilling *	ISO 12945-1 (Pilling box method) with assessment by ISO Pilling Grade replicas ISO 12945-2	After 1 & 15 washes Smooth surface : ≥Grade 3-4 Products with raised Surface : ≥Grade 3 10,800 cycles (180 min)	After 1 & 15 washes Smooth surface : ≥Grade 3-4 Products with raised Surface : ≥Grade 3 10,800 cycles (180 min)	After 1 & 15 washes Smooth surface : ≥Grade 3-4 Products with raised Surface : ≥Grade 3 10,800 cycles (180 min)	After 1 & 15 washes Smooth surface : ≥Grade 3-4 Products with raised surface ≥ Grade 10,800 cycles (180 min)



Martindale Abrasion Resistance *	ISO 12947-2			<p>≤ 245 gsm: No rupture after 12,500 cycles</p> <p>245-339 gsm: No rupture after 25,000 cycles</p> <p>> 339 gsm: No rupture after 35,000 cycles</p>	
Stretch and Recovery	EN 14704-1 Method A	After 1 wash - Extension 10 % after 30 mins	After 1 wash - Extension 10 % after 30 mins	After 1 wash - Extension 10 % after 30 mins	After 1 wash - Extension 10 % after 30 mins
		After 15 washes - 15% after 30 mins	After 15 washes - 15% after 30 mins	After 15 washes - 15% after 30 mins	After 15 washes - 15% after 30 mins
Density/Weight *	EN 12127 / ISO 3801	Report only for bursting strength testing	Report only for bursting strength testing	Report only for seam slippage, tear and tensile strength testing	Report only for seam slippage, tear and tensile strength testing
Product waterproofness (if claimed) *	ISO 811	<p>≥ 2600mmH₂O</p> <p>Includes assessment of seams (no leaking at any seam, curve, or cross point)</p>	<p>≥ 2600mmH₂O</p> <p>Includes assessment of seams (no leaking at any seam, curve, or cross point)</p>	<p>≥ 2600mmH₂O</p> <p>Includes assessment of seams (no leaking at any seam, curve, or cross point)</p>	
Fabric water repellence (if claimed) *	ISO 4920	≥ 3-4	≥ 3-4	≥ 3-4	
COLOUR PERFORMANCE (to be tested in the as received state)					
Colour Fastness to Washing	ISO 105 -C06	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5
Colour Fastness to Water	ISO 105 -E01	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5
Colour Fastness to Perspiration *	ISO 105 -E04 or AATCC 15	*Change: 4 Stain: 4 Cross Stain: 4-5	*Change: 4 Stain: 4 Cross Stain: 4-5	*Change: 4 Stain: 4 Cross Stain: 4-5	*Change: 4 Stain: 4 Cross Stain: 4-5
Colour Fastness to Crocking *	ISO 105 -X12 or AATCC 8	Stain Dry: 4 *Wet: 4	Stain Dry: 4 *Wet: 4	Stain Dry: 4 *Wet: 4	Stain Dry: 4 *Wet: 4
Colour Fastness to Light *	ISO 105 -B02 or AATCC 16.3, Op3	Blue Reference : ≥Grade 4 144 hours of light exposure	Blue Reference : ≥Grade 4 144 hours of light exposure	Blue Reference : ≥Grade 4 144 hours of light exposure	Blue Reference : ≥Grade 4 144 hours of light exposure
PERFORMANCE CLAIM (to be tested in the as received state and after 60 washes unless specified in the test item)					
No of Washes		1			
Performance Claim *	ISO 6330 4N wash/dry conditions based on care instructions. If tumble dry, use 10 wash / 1 dry, plus evaluation standard as per "Performance Claim" table	See "Performance Claim" table for requirement by claim type	See "Performance Claim" table for requirement by claim type	See "Performance Claim" table for requirement by claim type	See "Performance Claim" table for requirement by claim type

***Test items according to Product Environmental Footprint (PEF), Duration of service "Aspirational" level requirement**



Durable (Fabric) (3)

		FABRIC FOR BOTTOMS GARMENT				
PRODUCT TYPE	TEST METHOD	DRESSES, SKIRTS AND JUMPSUITS (WOVRN)	LEGGINGS, STOCKINGS, TIGHTS AND SOCKS (KNITTED)	LEGGINGS, STOCKINGS, TIGHTS AND SOCKS (WOVEN)	UNDERWEAR (KNITTED)	UNDERWEAR (WOVEN)
PHYSICAL PERFORMANCE (to be tested after prescribed number of washes unless specified in the test item)						
No of Washes / Drycleaning		60	30	30	30	30
Assessments after Washes / Drycleaning		1, 5, 15, 30 and 60	1, 5, 15 and 30	1, 5, 15 and 30	1, 5, 15 and 30	1, 5, 15 and 30
Appearance After Wash / Drycleaning	Visual Exam (Comprehensive) ISO 15487 ISO 6330 (washing) or ISO 3175 (dryclean) and Intertek Assessment Table	ISO Pilling grade replica : $\geq 3-4$ ISO Greyscale Colour change Grade : ≥ 4 Intertek Assessment Table	ISO Pilling grade replica : $\geq 3-4$ ISO Greyscale Colour change Grade : ≥ 4 Intertek Assessment Table	ISO Pilling grade replica : $\geq 3-4$ ISO Greyscale Colour change Grade : ≥ 4 Intertek Assessment Table	ISO Pilling grade replica : $\geq 3-4$ ISO Greyscale Colour change Grade : ≥ 4 Intertek Assessment Table	ISO Pilling grade replica : $\geq 3-4$ ISO Greyscale Colour change Grade : ≥ 4 Intertek Assessment Table
Dimensional Stability to Washing / Drycleaning	ISO 6330 (washing) or ISO 3175 (dryclean) and ISO 5077	+/- 3%	+/- 5%	+/- 3%	+/- 5%	+/- 3%
Spirality	ISO 16322-2 Procedure C	$\leq 5\%$	$\leq 5\%$	$\leq 5\%$	$\leq 5\%$	$\leq 5\%$
Tensile strength *	ISO 13934-1	<150 gsm: Warp $\geq 310N$, Weft $\geq 200N$ 151 - 200gsm: Warp $\geq 380N$, Weft $\geq 220N$ 201 -300 gsm: Warp $\geq 440N$, Weft $\geq 270N$ 301 - 400gsm: Warp $\geq 490N$, Weft 310N >400gsm: Warp $\geq 580N$, Weft 380N		<150 gsm: Warp $\geq 310N$, Weft $\geq 200N$ 151 - 200gsm: Warp $\geq 380N$, Weft $\geq 220N$ 201 -300 gsm: Warp $\geq 440N$, Weft $\geq 270N$ 301 - 400gsm: Warp $\geq 490N$, Weft 310N >400gsm: Warp $\geq 580N$, Weft 380N		<150 gsm: Warp $\geq 310N$, Weft $\geq 200N$ 151 - 200gsm: Warp $\geq 380N$, Weft $\geq 220N$ 201 -300 gsm: Warp $\geq 440N$, Weft $\geq 270N$ 301 - 400gsm: Warp $\geq 490N$, Weft 310N >400gsm: Warp $\geq 580N$, Weft 380N
Tear Strength *	ISO 13937-1	< 70 gsm: $\geq 10N$ 70-120 gsm: $\geq 12N$ 121-200 gsm: $\geq 14N$ > 200 gsm: $\geq 18N$		< 70 gsm: $\geq 10N$ 70-120 gsm: $\geq 12N$ 121-200 gsm: $\geq 14N$ > 200 gsm: $\geq 18N$		< 70 gsm: $\geq 10N$ 70-120 gsm: $\geq 12N$ 121-200 gsm: $\geq 14N$ > 200 gsm: $\geq 18N$
Bursting Strength *	ISO 13938-2 or ASTM D3786		$\leq 180gsm : \geq 310 kPa$ $>180gsm : \geq 400 kPa$		$\leq 180gsm : \geq 310 kPa$ $>180gsm : \geq 400 kPa$	
Seam Slippage *	ISO 13936-2	< 220 gsm : $\leq 2mm @ 60N$ $\geq 220 gsm : \leq 2mm @ 120N$		< 220 gsm : $\leq 2mm @ 60N$ $\geq 220 gsm : \leq 2mm @ 120N$		< 220 gsm : $\leq 2mm @ 60N$ $\geq 220 gsm : \leq 2mm @ 120N$
Pilling *	ISO 12945-1 (Pilling box method) with assessment by ISO Pilling Grade replicas ISO 12945 -2	After 1 & 15 washes Smooth surface : \geq Grade 3-4 Products with raised surface : \geq Grade 3 10,800 cycles (180 min)	After 1 & 15 washes Smooth surface : \geq Grade 3-4 Products with raised Surface : \geq Grade 3 10,800 cycles (180 min)	After 1 & 15 washes Smooth surface : \geq Grade 3-4 Products with raised Surface : \geq Grade 3 10,800 cycles (180 min)	After 1 & 15 washes Smooth surface : \geq Grade 3-4 Products with raised surface : \geq Grade 3 10,800 cycles (180 min)	After 1 & 15 washes Smooth surface : \geq Grade 3-4 Products with raised surface : \geq Grade 3 10,800 cycles (180 min)
Martindale Abrasion Resistance *	ISO 12947-2	$\leq 245 gsm$: No rupture after 12,500 cycles		$\leq 245 gsm$: No rupture after 12,500 cycles		$\leq 245 gsm$: No rupture after 12,500 cycles



		245-339 gsm: No rupture after 25,000 cycles > 339 gsm: No rupture after 35,000 cycles		245-339 gsm: No rupture after 25,000 cycles > 339 gsm: No rupture after 35,000 cycles		245-339 gsm: No rupture after 25,000 cycles > 339 gsm: No rupture after 35,000 cycles
Stretch and Recovery	EN 14704-1 Method A	After 1 wash - Extension 10 % after 30 mins	After 1 wash - Extension 10 % after 30 mins	After 1 wash - Extension 10 % after 30 mins	After 1 wash - Extension 10 % after 30 mins	After 1 wash - Extension 10 % after 30 mins
		After 15 washes - 15% after 30 mins	After 15 washes - 15% after 30 mins	After 15 washes - 15% after 30 mins	After 15 washes - 15% after 30 mins	After 15 washes - 15% after 30 mins
Density/Weight *	EN 12127 / ISO 3801	Report only for seam slippage, tear and tensile strength testing	Report only for bursting strength testing	Report only for seam slippage, tear and tensile strength testing	Report only for bursting strength testing	Report only for seam slippage, tear and tensile strength testing
Product waterproofness (if claimed) *	ISO 811					
Fabric water repellence (if claimed) *	ISO 4920					
COLOUR PERFORMANCE (to be tested in the as received state)						
Colour Fastness to Washing	ISO 105 -C06	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5
Colour Fastness to Water	ISO 105 -E01	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5
Colour Fastness to Perspiration *	ISO 105 -E04 or AATCC 15	*Change: 4 Stain: 4 Cross Stain: 4-5	*Change: 4 Stain: 4 Cross Stain: 4-5	*Change: 4 Stain: 4 Cross Stain: 4-5	*Change: 4 Stain: 4 Cross Stain: 4-5	*Change: 4 Stain: 4 Cross Stain: 4-5
Colour Fastness to Crocking *	ISO 105 -X12 or AATCC 8	Stain Dry: 4 *Wet: 4	Stain Dry: 4 *Wet: 4	Stain Dry: 4 *Wet: 4	Stain Dry: 4 *Wet: 4	Stain Dry: 4 *Wet: 4
Colour Fastness to Light *	ISO 105 -B02 or AATCC 16.3, Op3	Blue Reference : ≥Grade 4 144 hours of light exposure	Blue Reference : ≥Grade 4 144 hours of light exposure	Blue Reference : ≥Grade 4 144 hours of light exposure		
PERFORMANCE CLAIM (to be tested in the as received state and after 60 washes unless specified in the test item)						
No of Washes		1	1			
Performance Claim *	ISO 6330 4N wash/dry conditions based on care instructions. If tumble dry, use 10 wash / 1 dry, plus evaluation standard as per "Performance Claim" table	See "Performance Claim" table for requirement by claim type	See "Performance Claim" table for requirement by claim type	See "Performance Claim" table for requirement by claim type	See "Performance Claim" table for requirement by claim type	See "Performance Claim" table for requirement by claim type

***Test items according to Product Environmental Footprint (PEF), Duration of service "Aspirational" level requirements**



Durable (Fabric) (4)

		FABRIC FOR SWIMWEAR GARMENT		FABRIC FOR APPAREL ACCESSORIES	
PRODUCT TYPE	SWIMWEAR (WOVEN)	APPAREL ACCESSORIES (KNITTED)	SWIMWEAR (WOVEN)	APPAREL ACCESSORIES (KNITTED)	SWIMWEAR (WOVEN)
PHYSICAL PERFORMANCE (to be tested after prescribed number of washes unless specified in the test item)					
No of Washes / Drycleaning		30	30	30	30
Assessments after Washes / Drycleaning		1, 5, 15 and 30	1, 5, 15 and 30	1, 5, 15 and 30	1, 5, 15 and 30
Appearance After Wash / Drycleaning	Visual Exam (Comprehensive) ISO 15487 ISO 6330 (washing) or ISO 3175 (dryclean) and Intertek Assessment Table	ISO Pilling grade replica : ≥ 3-4 ISO Greyscale Colour change Grade : ≥ 4 Intertek Assessment Table	ISO Pilling grade replica : ≥ 3-4 ISO Greyscale Colour change Grade : ≥ 4 Intertek Assessment Table	No coating degradation or delamination of any membranes ISO Pilling grade replica : ≥ 3-4 ISO Greyscale Colour change Grade : ≥ 4 Intertek Assessment Table	No coating degradation or delamination of any membranes ISO Pilling grade replica : ≥ 3-4 ISO Greyscale Colour change Grade : ≥ 4 Intertek Assessment Table
Dimensional Stability to Washing / Drycleaning	ISO 6330 (washing) or ISO 3175 (dryclean) and ISO 5077	+/- 5%	+/- 3%	+/- 5%	+/- 3%
Spirality	ISO 16322-2 Procedure C	≤ 5%	≤ 5%	≤ 5%	≤ 5%
Tensile strength *	ISO 13934-1		<150 gsm: Warp ≥ 310N, Weft ≥ 200N 151 - 200gsm: Warp ≥ 380N, Weft ≥ 220N 201 - 300 gsm: Warp ≥ 440N, Weft ≥ 270N 301 - 400gsm: Warp ≥ 490N, Weft 310N >400gsm: Warp ≥ 580N, Weft 380N		<150 gsm: Warp ≥ 310N, Weft ≥ 200N 151 - 200gsm: Warp ≥ 380N, Weft ≥ 220N 201 - 300 gsm: Warp ≥ 440N, Weft ≥ 270N 301 - 400gsm: Warp ≥ 490N, Weft 310N >400gsm: Warp ≥ 580N, Weft 380N
Tear Strength *	ISO 13937-1		< 70 gsm: ≥ 10N 70-120 gsm: ≥ 12N 121-200 gsm: ≥ 14N > 200 gsm: ≥ 18N		< 70 gsm: ≥ 10N 70-120 gsm: ≥ 12N 121-200 gsm: ≥ 14N > 200 gsm: ≥ 18N
Bursting Strength *	ISO 13938-2 or ASTM D3786	≤ 180gsm : ≥ 310 kPa >180gsm : ≥ 400 kPa		≤ 180gsm : ≥ 310 kPa >180gsm : ≥ 400 kPa	
Seam Slippage *	ISO 13936-2		< 220 gsm : ≤ 2mm @ 60N ≥ 220 gsm : ≤ 2mm @ 120N		< 220 gsm : ≤ 2mm @ 60N ≥ 220 gsm : ≤ 2mm @ 120N
Pilling *	ISO 12945-1 (Pilling box method) with assessment by ISO Pilling Grade replicas ISO 12945-2	After 1 & 15 washes Smooth surface : ≥ Grade : 3-4 Products with raised surface : ≥ Grade 3 10,800 cycles (180 min)	After 1 & 15 washes Smooth surface : ≥ Grade 3-4 Products with raised surface : ≥ Grade 3 10,800 cycles (180 min)	After 1 & 15 washes Smooth surface : ≥ Grade 3-4 Products with raised surface : ≥ Grade 3 10,800 cycles (180 min)	After 1 & 15 washes Smooth surface : ≥ Grade 3-4 Products with raised surface : ≥ Grade 3 10,800 cycles (180 min)
Martindale Abrasion Resistance *	ISO 12947-2		≤ 245 gsm: No rupture after 12,500 cycles		≤ 245 gsm: No rupture after 12,500 cycles



			245-339 gsm: No rupture after 25,000 cycles > 339 gsm: No rupture after 35,000 cycles		245-339 gsm: No rupture after 25,000 cycles > 339 gsm: No rupture after 35,000 cycles
Stretch and Recovery	EN 14704-1 Method A	After 1 wash - Extension 10 % after 30 mins	After 1 wash - Extension 10 % after 30 mins	After 1 wash - Extension 10 % after 30 mins	After 1 wash - Extension 10 % after 30 mins
		After 15 washes - 15% after 30 mins	After 15 washes - 15% after 30 mins	After 15 washes - 15% after 30 mins	After 15 washes - 15% after 30 mins
Density/Weight *	EN 12127 / ISO 3801	Report only for bursting strength testing	Report only for seam slippage, tear and tensile strength testing	Report only for bursting strength testing	Report only for seam slippage, tear and tensile strength testing
Product waterproofness (if claimed) *	ISO 811			≥ 2600mmH ₂ O Includes assessment of seams (no leaking at any seam, curve, or cross point)	≥ 2600mmH ₂ O Includes assessment of seams (no leaking at any seam, curve, or cross point)
Fabric water repellence (if claimed) *	ISO 4920			≥ 3-4	≥ 3-4
COLOUR PERFORMANCE (to be tested in the as received state)					
Colour Fastness to Washing	ISO 105 -C06	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5
Colour Fastness to Water	ISO 105 -E01	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5
Colour Fastness to Perspiration *	ISO 105 -E04 or AATCC 15	*Change: 4 Stain: 4 Cross Stain: 4-5	*Change: 4 Stain: 4 Cross Stain: 4-5	*Change: 4 Stain: 4 Cross Stain: 4-5	*Change: 4 Stain: 4 Cross Stain: 4-5
Colour Fastness to Crocking *	ISO 105 -X12 or AATCC 8	Stain Dry: 4 *Wet: 4	Stain Dry: 4 *Wet: 4	Stain Dry: 4 *Wet: 4	Stain Dry: 4 *Wet: 4
Colour Fastness to Light *	ISO 105 -B02 or AATCC 16.3, Op3	Blue Reference ≥Grade 4 144 hours of light exposure	Blue Reference ≥Grade 4 144 hours of light exposure	Blue Reference ≥Grade 4 144 hours of light exposure	Blue Reference ≥Grade 4 144 hours of light exposure
Colour Fastness to Chlorinated Water	ISO 105-E03, 50 mg/L	Change: 3-4	Change: 3-4		
Colour Fastness to Salt Water	ISO 105-E02	Change: 4 Stain: 4 Cross Stain: 4-5	Change: 4 Stain: 4 Cross Stain: 4-5		
PERFORMANCE CLAIM (to be tested in the as received state and after 60 washes unless specified in the test item)					
Performance Claim *	ISO 6330 4N wash/dry conditions based on care instructions. If tumble dry, use 10 wash / 1 dry, plus evaluation standard as per "Performance Claim" table	See "Performance Claim" table for requirement by claim type	See "Performance Claim" table for requirement by claim type	See "Performance Claim" table for requirement by claim type	See "Performance Claim" table for requirement by claim type

***Test items according to Product Environmental Footprint (PEF), Duration of service "Aspirational" level requirements**



Intentionally added functional property claims according to Product Environmental Footprint (PEF), Duration of service “Aspirational” level requirements

Performance Claim	Test Standard	As received and after 60 washes (unless specified in the test item)
Smoothness	ISO 5077 & 6330 (washing) or ISO 3175-2 & 3175-1 (dryclean) according to care label	Grade \geq 3 - 4 after 15x cleaning cycles
Cold (thermal resistance)	ISO11092 RCT	Change claimed value (K.m ² /W): <10%
Water repellency	Bundesmann ISO 9865 OR	Rating below 2.5 not included at 10 min
	ISO 4920	\geq Grade 4 (laundered specimen)
Soil or stain Release	AATCC 130, Washing Procedure selection to match care label	\geq Grade 4 (laundered specimen)
Wrinkle resistance	ISO 9867	\geq Grade 4 (laundered specimen)
Wicking	AATCC 197 (Option B, 30 minutes)	Measure performance “as received” (initial value). After wash, must achieve the HIGHER of 80% of initial value or 150 mm.
Odor management	ISO 20743, Absorption Method	1-log reduction (90% reduction) in bacteria after 24-hour contact time compared to an untreated, unlaundered sample.
Breathability (post- laundering)	*JIS L1099 ** ISO 11092	U-Urban wear, A-Active wear, M-Mountaineering wear Option 1* B1 & B2: U: \geq 8000 & 5000, A: \geq 12000 & 8000, M: \geq 20000 & 10000. Option 2**, Ret: U: 13-20, A:6-13, M: \leq 6
Stretch and recovery	EN 14704-1	\geq 85% recovery after 30 min - Fabrics containing <5% elastane \geq 90% recovery after 30 min - Fabrics containing \geq 5% elastane
Others	Relevant ISO standard	Measure performance “as received” (initial value). After wash, must keep 80% of initial value.