



LOW IMPACT

LuxSkin[®]

Sustainable Material Innovation Through Textiles
www.lowimpact.technology

LuxSkin®

Fabric Technology

LuxSkin® is a textile technology designed to improve and enhance the skin of the wearer, based on a cosmetic patent used by some of the world's top skincare brands.

Available both in yarn and as a coating, LuxSkin® is comprised of all natural and proprietary ingredients such as aloe, marine collagen, silk aminos and protein peptides. This fabric micro-encapsulation can seep into the skin delivering the active ingredients into the dermis.

In Yarn Variations

Our innovative LuxSkin® technology embeds natural extracts like amino acids and crude fibers, known for their skin compatibility, into the fiber, promising enduring comfort and luxury.

How It Works: In-Yarn

The permanently infused collagen fiber acts like a net for the skin, firmly locking in moisture and helping to form a flexible water retaining barrier. LuxSkin® plays a beneficial role in skin moisturization and regulating pH.



In Yarn: Collagen Nylon Filament

Specification	40D/36F DTY RW S&Z twist
Grade	AA
Packaging	20 Cartons - 1 pallet 1 carton - 32.5kgs. - bobbin - 11pcs. (estimated)
Color	Raw White

Test Results

Linear Density (dtex)	47.8 (dtex)
Deviation Rate of Linear Density	+/- 2.8 %
Breaking Strength	4.0 (cN/dtex)
CV Value of Breaking Strength	3.5 %
Breaking Elongation	23.5%
CV Value of Breaking Elongation	4.0

In Yarn: Collagen Fiber

Specification	Collagen Viscose Staple Fiber 1.5D*38mm
Grade	AA
Color	Raw White

Technical Details

Breaking Tenacity (CN/dtex)	2.22
Residual Sulfur (mg / 100g)	22.3
Breaking Elongation (%)	17.7
Over Length Fiber Rate (g/100g)	2.0
Linear Density Deviation (%)	1.28
Length Deviation Rate (%)	-0.5
Ultra Long Fiber Rate (%)	0.5
Whiteness (%)	67.0
Oil Content (%)	14.5
Moisture Rate (%)	11.43
Defect Content (mg / 100g)	1.0
Linear dtex	1.58

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Topical Variations

Our proprietary blends of topical LuxSkin® technology uses a wide range of bio-based encapsulated active ingredients to boost textiles for a positive effect on your skin health.

Aloe Blend

(Original formula)

Moisturizing effects for hair and skin

Avocado

(made from seed waste byproduct)

Softens and hydrates skin and hair

Vitamin E

Potent antioxidant against free radical oxidation

Hemp

Relaxing and calming, healthy sleep and pain relief

Multi-Vitamin

Blend of Vitamin C, E and ginger

Chamomile Oil

Known for its calming, anti-stress and anti-inflammatory properties

How It Works: Topical

Our biobased active ingredients are encapsulated in a proprietary polymer shell, and applied to textiles. The friction between the body and the textile releases this micro-encapsulation, making it easily and gradually absorbed into the layers of the skin. Readily biodegradable, and wash durable for up to 50 washes.

Available by dipping or padding process.



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Content Breakdown

Structured In House Amino Acid Test: In Yarn Variation

(SGS or similar testing facility)

TEST ITEM	UNIT	TEST RESULTS
Aspartic Acid	g/100 g	0.10
Threonine	g/100 g	0.04
Serine	g/100 g	0.05
Glutamic Acid	g/100 g	0.17
Glycine	g/100 g	0.05
Alanine	g/100 g	0.04
Valine	g/100 g	0.12
Isoleucine	g/100 g	0.06
Leucine	g/100 g	0.11
Tyrosine	g/100 g	0.03
Phenylalanine	g/100 g	0.05
Lysine	g/100 g	0.03
Histidine	g/100 g	0.01
Arginine	g/100 g	0.06
Proline	g/100 g	0.13
18 Total Hydrolyzed Amino Acids	g/100 g	1.14
16 Total Hydrolyzed Amino Acids	g/100 g	1.09
Cys	g/100 g	0.05
MetSON	g/100 g	0.04