

innovera HARMONY IN YOUR HANDS



innovera

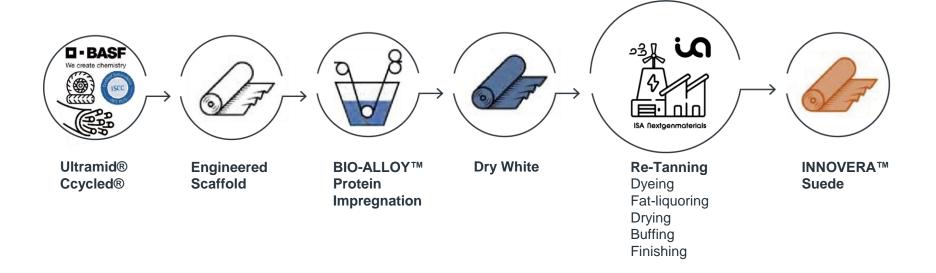
ALL IT TAKES IS ONE TOUCH.

INNOVERA™ is the transformative material crafted using plant-based proteins, biopolymers, and recycled rubber. Completely animal-free, it is masterfully engineered to replicate the look and feel of the collagen found in leather. INNOVERA™ supports a circular economy with recyclability and seamlessly integrates into traditional leather production.





HOW IT'S MADE



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INNOVERA™ VS TRADITIONAL LEATHER

INNOVERA™ is engineered to mirror Leather's structure and functionality

INNOVERA™ Dry White





Traditional Wet Blue

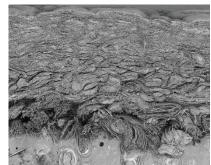
INNOVERA™ Suede & Finished











CROSS-

SECTION



RETAN &

FINISH

FEATURES



Created with Recycled Rubber Uses post consumer

waste, which never makes it to landfill. BASF Nylon recycling process of tires



Functionality Comes from Infused Plant Proteins

Traceable Non GMO soy protein isolate



Has >80% Renewable Content

Bio content of plantbased chemicals and proteins & recycled post-consumer tires



High Performance

Tensile, tear, elongation, abrasion stronger than regular suede



Finished to Look and Feel Like Leather

Genuine tanning craftsmanship



Lightweight

Lighter overall weight than suede, creates a lighter & faster product



Plant Proteins Give A Warm Touch Improved feel over

synthetic materials



Animal Free

Crafted with no animal derived products



100% Cuttable Area

No scars, brands or irregular shapes allows maximum yield



Scalability

Bio-engineered as a drop-in replacement for existing leather post-tanning





ORDERING INFO

THICKNESS: 1.0-1.2 mm

WEIGHT: 500-670 gsm

COMPOSITION: 60% Post Consumer Nylon

23-28% Bio-Alloy™

12-17% Dye and Finishes

DUTY OR HTS CODE: 5603.94

PANEL SIZE: 1.25 m x 1.4 m

LEAD TIME:

Production 30 days, samples 14 days

CAPACITY: 150,000 sf per month

PRODUCTION LOCATION: China / Vietnam



Test Specification

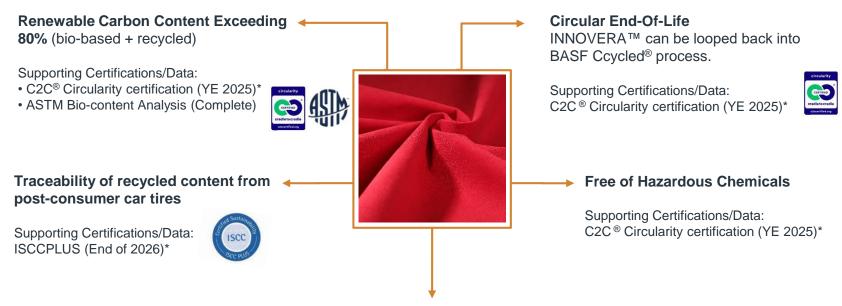
	INNOVERA™	NATURAL GRAIN LEATHER
Tensile	Specified Minimum: 18 N/mm2 Actual: around 25 N/mm2	Around 15 N/mm2
Elongation at break	Specified Minimum: 40% Actual: around 50% (roll direction) / 85% (transversal direction)	35%-65%
Baumann - slit tear strength	Specified Minimum: 80 N Actual: around 130 N (roll direction) / 100 N (transversal direction)	Around 50 N

	Test Code	017 A0	Date	12/16/24	End User	ALL
Pro	Product Name INNOVERA™			<u> </u>	Color	ALL
ID	ID Property / Description		Test Metho	od	Units	Requirement
12	2 THICKNESS OF LEATHER AND INSOLE MATERIALS			Л1	mm	Data
75	SOFTNESS		IUP36		mm	Data @ 25 mm aperture
550	TENSILE STRENGTH		SATRA TI	M43	N/mm2	min. 18
2	EXTENSION AT BREAK		SATRA TI	M43	%	min. 40
24	TEAR STRENGTH - BAUMANN METHOD		SATRA TI	M162	N	min. 80
494	MULLEN BURST		ASTM D3	786	kgf/cm2	min. 20
22	FLEXING RESISTANCE OF UPPER METERIALS - BALLY FLEXOMETER - DRY			M55	Pass /Failed	125,000 cycles No damage
485	CROCKMETER TEST - DRY - GRAIN		RY - SATRA TI	M167	GSS RATING	Light colors: min. 3.5 Dark colors: min.1.5
487	CROCKMETER TEST - WET - GRAIN		ET - SATRA TI	M167	GSS RATING	Light colors: min. 3.5 Dark colors: min.1.5
706	COLOUR FASTNESS TO MIGRATION INTOPOLYMERIC MATERIAL (PVC)		IS0 15701		GSS RATING	min. 3.5 (Grain side)
595	COLOUR FASTNESS TO WATER		SATRA TI	M335	GSS RATING	Light colors: min. 4 (Grain side) Dark colors: min.2 (Grain side)
104	LIGHT FASTNESS		ASTM D1	148	GSC RATING	300 W/50 C/24 hours min.3 (Grain side)





CERTIFICATIONS



Quantified Environmental Footprint Via Third-Party Life Cycle Assessment (LCA)

Preliminary LCA conducted in 2023 found that INNOVERA™ reduces carbon footprint, water usage, energy consumption, and land use compared to equivalent bovine suede**.



^{*} Projected timeline to complete certification for INNOVERA™ Dry White only.

^{**} New LCAs will be commissioned in 2025 to reflect improved data quality and accuracy for the scaled processes

CERTIFICATIONS







SGS Vegan Certification

Dry White Preliminary LCA

KEY IMPACT INDICATORS								
GWP 100a: kg CO ₂ eg./m ²	Resource use: Fossil (MJ/m²)	Water use: M³/m²	Eutrophication: Freshwater (kg P eq./m²)					
7.32	146.07	2.21	1.05 x 10 ⁻³					

