ISA CORE

Powered by innovera





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.







A Powerful Partnership for the Future of Materials

Innovation Meets Heritage

ISA's expertise in leather finishing and Modern Meadow's bio-design technology come together to create CORE | Powered by INNOVERA™, a new class of sustainable material

Crafting the Future of Materials

By combining ISA's craftsmanship with Modern Meadow's innovation, Core | Powered by INNOVERA™ is not only built to meet the highest standards of quality and sustainability, but also delivers the look and feel of suede

Shared Values

Both partners share a strong commitment to sustainability, offering a solution that supports circularity and reduces environmental impact





MARKET CONTEXT

Shifting expectations & behaviors of environmentally conscious consumers

Ramp up in brand sustainability goals & commitments

Rapidly Growing Market / Demand for Sustainable **Materials**

Increasing regulatory pressure and action to promote sustainability and circularity

Innovation in sustainable materials and growing portfolio of options in market



WHY INNOVERA™ MATTERS

INNOVERA™ is not just another material innovation, but also a solution designed for the future of fashion and design. As an innovative sustainable material, INNOVERA™ allows your brand to meet the growing demand for sustainable materials while maintaining the high standards of aesthetics, touch, and performance that your customers expect.

New Canvas for Designers



- Adaptable form and function
- Versatile crafting
- Precision detailing
- Customizable textures and finishes

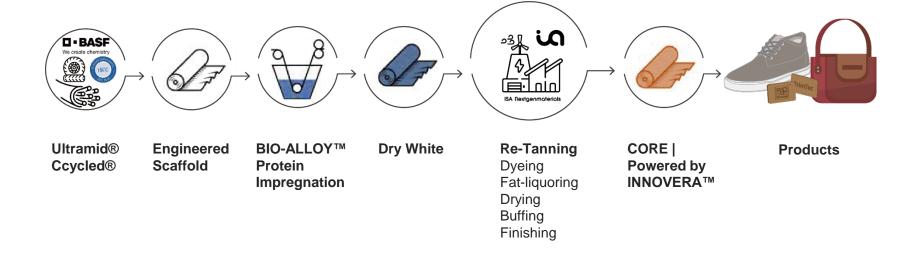
Sustainable Luxury for Consumers



- Luxurious feel
- Durable and long-lasting
- Versatile and stylish
- Eco-friendly choice



HOW IT'S MADE





HOW IT'S MADE

CORE | Powered by INNOVERA™ VS TRADITIONAL LEATHER

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

INNOVERA™ Dry White



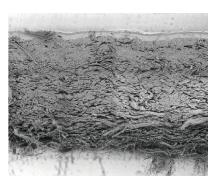
Traditional Wet Blue

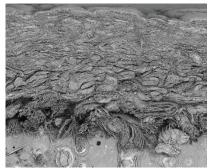
CORE | Powered by INNOVERA™











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

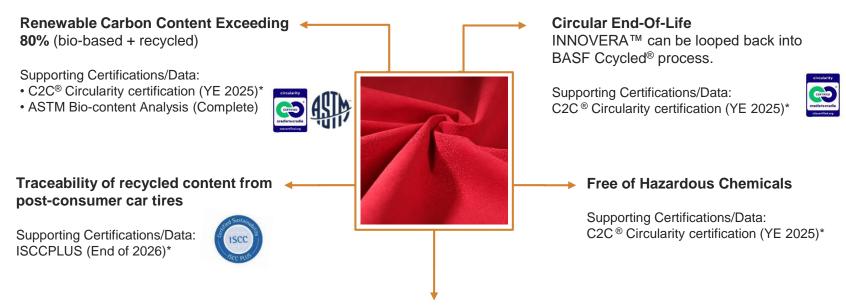
	CORE Powered by INNOVERA™	NATURAL GRAIN LEATHER
Tensile	Specified Minimum: 18 N/mm2 Actual: around 25 N/mm2	Around 15 N/mm2
Elongation at break	Specified Minimum: 40% Actual: around 50% (roll direction) / 85% (transversal direction)	35%-65%
Baumann - slit tear strength	Specified Minimum: 80 N Actual: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

	Test Code	017 A0		Date	12/16/24	End User	ALL
Product Name CORE Powered				by INNOVERA™		Color	ALL
ID Property / Description				Test Method		Units	Requirement
12 THICKNESS OF LEATHER AND INSOLE MATERIALS				SATRA TM1		mm	Data
75	75 SOFTNESS			IUP36		mm	Data @ 25 mm aperture
550	50 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 D3786		kgf/cm2	min. 20
22	FLEXING RESISTANCE OF UPPER METERIALS - BALLY FLEXOMETER - DRY			SATRA TM55		Pass /Failed	125,000 cycles No damage
485	CROCKMETER TEST - DRY - GRAIN			SATRA TI	M167	GSS RATING	Light colors: min. 3.5 Dark colors: min.1.5
487	CROCKMETER TEST - WET - GRAIN			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 TM335		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					





Act Now!

Join us in shaping a material-future that is aligned with science, sustainability, and scale!

For more information about ISA CORE, please feel free to contact your account manager.

