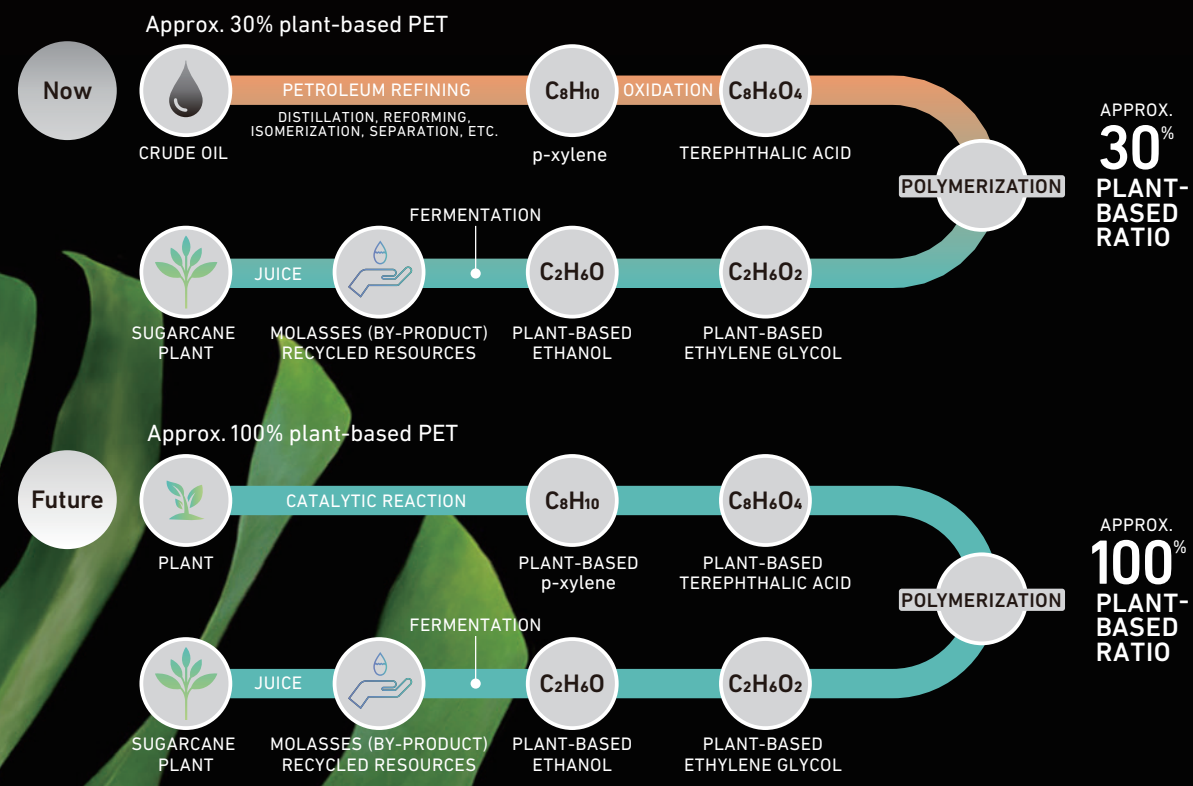


Plant-based Ultrasuede® nu



Toray started commercial production of its non-woven material with a suede texture, which uses recycled resources derived from plants as part of its raw materials, for the first time in the world in 2015. Through Ultrasuede®, Toray helps to realize a carbon-neutral society by employing a chemical recycling system as well as by sourcing its raw materials from plant-based polymers. This provides the advantage of stable supply, quality and reliability. We consider these sustainable materials to be better for the Earth and its people as we aim to build a sustainable society through responsible manufacturing.

The advantages of plant-based materials*

- Contribute to a non-oil-dependent society
- Secure supply and stable quality
- Reliable as raw feedstocks (non-edible part, non-GMO, test certificate)

*Ultrasuede® products made from partly plant-based PET

For inquiries, please visit: ultrasuede.com/contact
You may also contact our regional office directly:



www.toray.com



www.ultrasuede.com



Youtube

EUROPE

Toray International Europe GmbH
Hugenottenallee 175,
63263 Neu-Isenburg, Germany
ultrasuede.tieu.ug@mail.toray

Toray International Italy S.r.l.
Via Mecenate 86, 20138 Milan, Italy
textiles.tiit.ug@mail.toray

Toray International U.K. Ltd.
Thomas House, 84 Eccleston Square,
London, SW1V 1PX, England, U.K.
ultrasuede.tiuk.ug@mail.toray

JAPAN

Toray Industries, Inc.
Osaka
+81-6-7688-3373

Tokyo
+81-3-3245-5401

Innovation by Chemistry.

Materials can change our lives.

Toray Group firmly believes that “materials, as the foundation of all products, have the power to bring about fundamental transformations in society.” Based on this belief, our goal is to become a global top company in advanced materials as an integrated chemical industry group. Since our establishment, we have positioned “contributing to society” as the focus of our existence. Carrying this focus into our corporate philosophy of “contributing to society through the creation of new value with innovative ideas, technologies, and products,” we are ramping up efforts to solve a host of issues worldwide together with global partners by providing innovative technologies and advanced materials. With this in mind, we are working to become a corporate group that provides high value to all stakeholders.

ultrasuede® nu



Style : 5394



Ultrasuede®nu is a non-woven material created using ultra-fine fibers having a genuine grain leather appearance. The next generation of lightweight, breathable leather: Ultrasuede® nu provides customers with a new choice superior to conventional natural and synthetic leathers.

Ultrasuede® keeps evolving toward a future full of "Beautiful Possibilities."

SPECIFICATIONS

Style: 5394
Width: 1,380mm
Put-up: Approx. 30m
Weight: 375±40 per sq. meter
Thickness: 0.9±0.1mm
Fiber Fineness: 0.21 dtex
Composition: 80% Polyester (approx. 30% plant-based) 20% Polyurethane (approx. 30% plant-based)

Full color range available:
Stock in Portugal warehouse



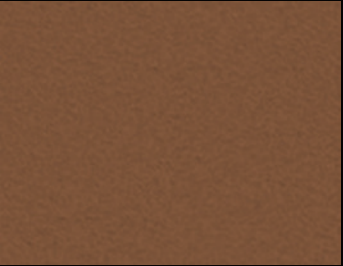
3534 Skin Beige



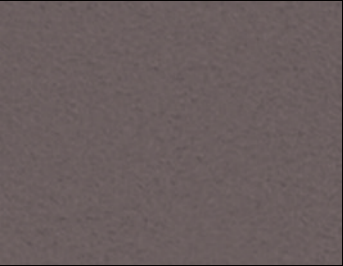
A19 Sand Beige



3536 Ginger



3538 Almond



3367 Elephant



B36 Wineberry



BLU3 Navy



B25 Brown Slate



5578 Charcoal



5709 Black Onyx

Ultrasuede® nu 1.0B

nu 1.0B :
1.0 mm thick with a soft, supple feel and surface appearance with superior durability

- Delicate texture and suppleness reminiscent of premium aniline leather
- A unique, calming luster
- Light, comfortable breathability
- Superior durability
- Easy to care for and maintain
- Unlimited creative options like laser cutting, embossing or printing
- Employment of partially plant-based polyester and polyurethane



Eco Mark Certification#
24 105 003

CARE INSTRUCTIONS



- Ultrasuede®nu is a material made of ultra-fine fibers (1/20th thickness of a human hair,) and has a specially treated surface that delivers a distinctive touch. As such, repeated rubbing may alter its lustrous appearance or cause excessive fuzzing or fabric tears. Fuzz can be removed using a weak adhesive tape.
- A product using Ultrasuede®nu is hand-washable. Wash separately and be careful not to damage the lining material or interlining.
- Because Ultrasuede®nu is an extremely delicate material, hand wash by gently pushing it down in a liquid at below 30°C. Avoid rubbing or twisting as it may deteriorate Ultrasuede®nu's surface texture.
- An Ultrasuede®nu product should not be washed together with other items, as color migration may occur depending on the material or color of other items.
- When using a detergent, liquid neutral detergent is recommended. Do not use chlorine bleach.
- After washing, line-dry in shade.
- When ironing, use a low temperature setting (110°C or lower) and place a seamless cloth on top of the product. Use light pressure and never press the iron too hard or stop at one place on the product.
- Use utmost caution when placing the Ultrasuede®nu product in proximity to hot objects such as a lit cigarette or stove. When storing, place the Ultrasuede®nu product in a bag and hang it on a garment hanger. Avoid storing in places subject to high temperature, high humidity, or sunlight.
- Make sure to place the Ultrasuede®nu product in a packaging bag. Do not use PVC, vinylon, or other vinyl-based bags. It is preferable to use a breathable polyethylene or polypropylene bag with eyelets. Storing the product in an unpacked state may cause color to transfer from the Ultrasuede®nu product to other items or vice versa.

QUALITY SPECIFICATION
(Physical Properties and Colorfastness)

CHARACTERISTICS	METHOD	SPECIFICATION
Tear Strength (N)	ISO 13937-1	≥7N
Tensile Strength (N)	ISO 13934-1	≥200N
Pilling Resistance (Grage)	ISO 12945-1 (10 hours)	≥Grade3
Abrasion Resistance (Grade)	ISO 12947-2(12KPa) Change in Appearance(Internal Standard)	≥Grade3
Dimensional Change after Washing (%)	ISO 6330 4M-C (Front Loading Washing Machine/3 times)	-3%to+1%
Colorfastness to Rubbing (Grade)	ISO 105-X12	Dry ≥Grade4 Wet ≥Grade3
Colorfastness to Light (Grade)	ISO 105-B02 (Xenon)	≥Grade3
Colorfastness to Perspiration (Grade)	ISO 105-E04	Color Change ≥Grade4 Staining ≥Grade3
Colorfastness to Washing (Grade)	ISO 105-C06 B2S	Color Change ≥Grade4 Staining ≥Grade3
F/R Rating	TB117-2013 ASTM E84 Class A NFPA 260 Class 1 Can be treated to meet EN1021-1 EN1021-2 IMO FTPC Part 8	

*Values shown above are Toray measurements and not independently guaranteed.
*Please inquire us regarding fastness of extra dark colors.
*Please inquire us regarding other F/R tests.

NOTES FOR HANDLING

- The appearance of Ultrasuede®nu may vary depending on viewing direction and/or angle. Such variations are caused by the direction of the material's naps or angle of light application and not from actual color differences.
- When sewing the Ultrasuede®nu material, marking should be done so that the nap directions are aligned for the areas that are to be sewn together, and where a difference in appearance is more visible.
- Use utmost caution when combining medium/dark-colored Ultrasuede®nu with lighter-colored materials, as color may migrate.
- Due to structural characteristics, Ultrasuede®nu has a fine nap on its inner side to deliver a soft feel. As rubbing may cause fuzz to attach to clothing, etc., the use of a lining is recommended.
- Avoid stacking Ultrasuede®nu material in a crossed manner for temporary placement or when storing. This may deteriorate its quality by leaving an impression on the fabric placed at the bottom.