

HAPPIGREENS / MATERIAL COLLECTION

Cactus Plant Leather

Seventeen surfaces. One considered starting point for sampling and product development.

COLLECTION CATALOGUE / 2026

The material, in context

MATERIAL

Cactus-biomass and plant-fibre composite with a polymeric binder. Supplier describes Nopal (Opuntia ficus-indica) and agricultural biomass; exact cactus percentage and formulation are not confirmed.

COLLECTION

17 named finishes with customisable colour subject to supplier sampling.

DIMENSIONS

Catalogue range: 0.5–1.4 mm thickness; 1,400 mm width; 50–60 m roll length. Confirm per construction.

BACKING

Catalogue states pure cotton; a separate supplier sheet describes recycled fabric or organic cotton options. Confirm the actual chosen backing.

MATERIAL SCIENCE

Supplier describes cellulose, hemicellulose and lignin reinforcing a polymer matrix. Fibre-polymer interaction and curing are proposed mechanisms for strength, flexibility and finish; not a disclosed formulation.

Technical values in this catalogue are either supplier-stated or scoped to separately tested samples. Request a physical swatch and variant-specific documents before specifying.

Seventeen distinct finishes



01 / CV-PETR

Petro

Semi gloss finish

0.5-1.4 mm collection range

1,400 mm width · 50-60 m rolls

Pure cotton backing in source catalogue

Colour customisable; confirm by sample



02 / CV-ONDA

Onda

Gloss finish

0.5-1.4 mm collection range

1,400 mm width · 50-60 m rolls

Pure cotton backing in source catalogue

Colour customisable; confirm by sample



03 / CV-TAFL

Tafla

Matt finish

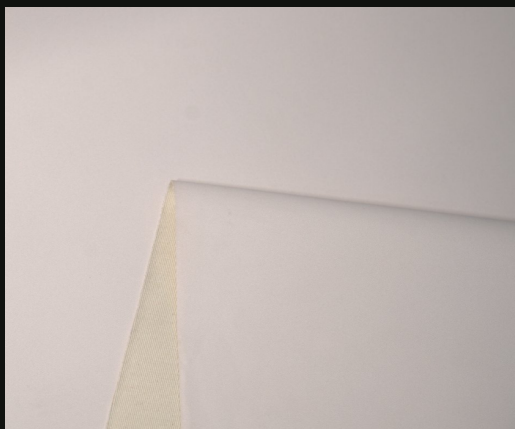
0.5-1.4 mm collection range

1,400 mm width · 50-60 m rolls

Pure cotton backing in source catalogue

Colour customisable; confirm by sample

Seventeen distinct finishes



04 / CV-ALOR

Alora

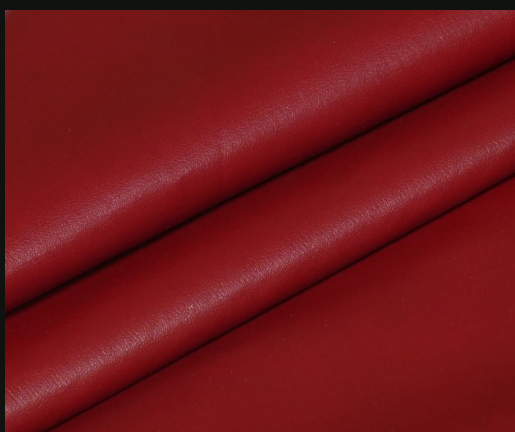
Matt finish

0.5-1.4 mm collection range

1,400 mm width · 50-60 m rolls

Pure cotton backing in source catalogue

Colour customisable; confirm by sample



05 / CV-PLAI

Plain Matt

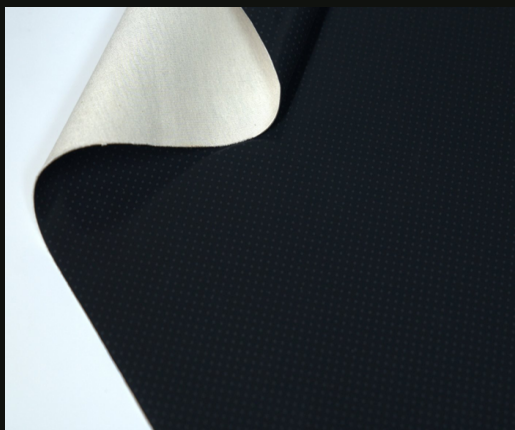
Matt finish

0.5-1.4 mm collection range

1,400 mm width · 50-60 m rolls

Pure cotton backing in source catalogue

Colour customisable; confirm by sample



06 / CV-FERN

Fern Flex

Semi gloss finish

0.5-1.4 mm collection range

1,400 mm width · 50-60 m rolls

Pure cotton backing in source catalogue

Colour customisable; confirm by sample

Seventeen distinct finishes



07 / CV-TUNY

Tunya

Matt finish

0.5-1.4 mm collection range

1,400 mm width · 50-60 m rolls

Pure cotton backing in source catalogue

Colour customisable; confirm by sample



08 / CV-OPAL

Opal

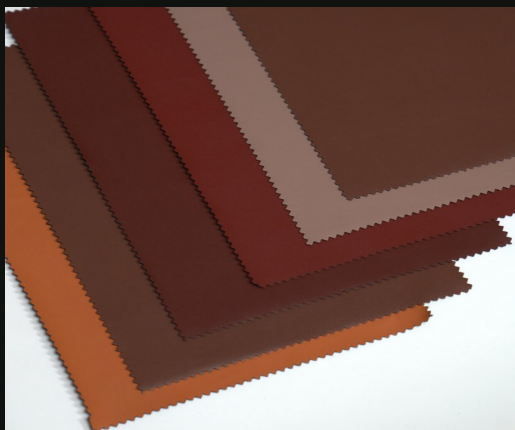
Matt finish

0.5-1.4 mm collection range

1,400 mm width · 50-60 m rolls

Pure cotton backing in source catalogue

Colour customisable; confirm by sample



09 / CV-CARN

Carnatia

Matt finish

0.5-1.4 mm collection range

1,400 mm width · 50-60 m rolls

Pure cotton backing in source catalogue

Colour customisable; confirm by sample

Seventeen distinct finishes



10 / CV-HERB

Herbs

Gloss finish
0.5-1.4 mm collection range
1,400 mm width · 50-60 m rolls
Pure cotton backing in source catalogue
Colour customisable; confirm by sample



11 / CV-VAIN

Vains

Gloss finish
0.5-1.4 mm collection range
1,400 mm width · 50-60 m rolls
Pure cotton backing in source catalogue
Colour customisable; confirm by sample



12 / CV-NIMB

Nimbus

Matt finish
0.5-1.4 mm collection range
1,400 mm width · 50-60 m rolls
Pure cotton backing in source catalogue
Colour customisable; confirm by sample

Seventeen distinct finishes



13 / CV-ZAFL

Zaflo

Matt finish

0.5-1.4 mm collection range

1,400 mm width · 50-60 m rolls

Pure cotton backing in source catalogue

Colour customisable; confirm by sample



14 / CV-GARD

Garden

Matt finish

0.5-1.4 mm collection range

1,400 mm width · 50-60 m rolls

Pure cotton backing in source catalogue

Colour customisable; confirm by sample



15 / CV-TOVI

Tovia

Gloss finish

0.5-1.4 mm collection range

1,400 mm width · 50-60 m rolls

Pure cotton backing in source catalogue

Colour customisable; confirm by sample

Seventeen distinct finishes



16 / CV-DAIS

Daisyx

Matt finish

0.5-1.4 mm collection range

1,400 mm width · 50-60 m rolls

Pure cotton backing in source catalogue

Colour customisable; confirm by sample



17 / CV-PIVR

Pivra

Semi gloss finish

0.5-1.4 mm collection range

1,400 mm width · 50-60 m rolls

Pure cotton backing in source catalogue

Colour customisable; confirm by sample

Explore the end use

HANDBAGS & ACCESSORIES

Totes, wallets, belts and structured accessories; validate wear on the final construction.

FOOTWEAR

Uppers and sneakers for evaluation. Flex results are from a separate tested sample; breathability is not independently confirmed.

FASHION & APPAREL

Jackets and selected garments; assess drape, hand feel and care.

UPHOLSTERY & FURNITURE

Panels and seating concepts; verify abrasion, fire and project-specific requirements.

AUTOMOTIVE INTERIORS

Concept trim only; no OEM approval or automotive-specific evidence supplied.

LIFESTYLE GOODS

Bags, sleeves and small goods for sampling and development.

Tested samples, not finishes

BIOBASED CARBON / SUBMITTED SAMPLE

Beta Analytic, 11 May 2026: ASTM D6866-24 Method B (AMS), TOC. 85% biobased carbon as a fraction of total organic carbon in the tested sample (± 3 percentage points). Not a mass percentage or a breakdown of the formulation.

CHEMICAL SCREENING / TEAL SAMPLE

TÜV Rheinland report 147093801, 12 August 2025. FTIR recorded PVC absent; material list states PU absent for tested component. Azo amines and cadmium not detected at reported limits; formaldehyde and seven specified phthalates not detected at reported limits.

PH / TEAL SAMPLE

ISO 3071:2020 result: 6.2.

The teal and bio-carbon samples are not identified as Petro, Onda, or any other finish shown in this collection. These are sample-specific results; no collection-wide “plastic-free” claim is made.

Physical performance

TEST SCOPE

TÜV Rheinland report 147175868, 9 March 2026. Submitted black sample, not identified as one of the 17 named surfaces.

FLEX RESISTANCE / SATRA TM 55

No cracking at 100,000 dry cycles and 50,000 wet cycles, in along and across directions.

FINISH ADHESION / SATRA TM 410

Average 0.6 N/mm dry; 0.4 N/mm wet. The report notes top-coating adhesion failure.

LIGHT AND RUBBING

Lightfastness grade 4 (ISO 105 B02:2014 modified); dry and wet rubbing grade 4-5 (ISO 105 X12:2016).

WATER SPOTTING

No loss of lustre, swelling or cracking observed at 30 minutes; colour change grade 4-5 after 16 hours (ISO 105 E07:2010).

PERSPIRATION

Acidic and alkaline colour change and staining grade 4-5 (ISO 105 E04:2013).

Indicative, not independently verified

THICKNESS

General supplier TDS covers 0.6–1.2 mm; collection catalogue lists 0.5–1.4 mm. Confirm selected construction.

TENSILE AND ELONGATION

Supplier sheet quotes 10–25 MPa tensile and 95–120% elongation for 0.6–1.2 mm material; supporting variant-linked results were not provided.

ABRASION, TEAR AND UV

Supplier sheet describes >10,000–20,000 Martindale cycles, high tear and UV resistance; no finish-specific reports were provided.

WATER RESISTANCE AND BREATHABILITY

Supplier sheet describes water repellency and moderate-to-high breathability. No variant-linked test result was supplied for either claim.

OTHER CLAIMS REQUIRING EVIDENCE

Supplier sheets mention carbon and water savings, biodegradability, safety compliance, automotive approval, lifespan and certifications. No substantiating scope was supplied for the named finishes; none is claimed here.

Discuss a requirement

The tests apply only to the separately submitted samples; the named finishes have not been linked to those reports. Request the full applicable reports, exact composition and backing, certification scope and physical samples before specification. The 85% result is a carbon-source measurement, not a biodegradability result.

Vidya Vijayaraghavan

Founder & CEO, HappiGreens

MOB / WHATSAPP

+91 96001 25445

EMAIL

connectwithvv@gmail.com

GENERAL ENQUIRIES

support@happigreensco.com

Enquiries answered within 48 hours.