

MANGO PLANT LEATHER

Mango biomass, material intelligence and considered product development.

01 / MATERIAL

From mango biomass to material

A mango-agricultural-biomass material developed with a biopolymer system, cotton textile backing and engineered surface finishing. HappiGreens coordinates material evaluation, sampling and sourcing for B2B buyers.

Supplier-stated formulation

50% mango pulp / 50% biopolymer; confirm whether this refers to the active layer or total finished composite including backing, coatings and additives.

Construction

Cotton textile backing and supplier-described surface coatings. Full layer-by-layer composition remains to be confirmed.

Available finishes

Matte, gloss and satin; supplier shows smooth, grained, embossed, perforated, quilted and woven-effect surfaces.

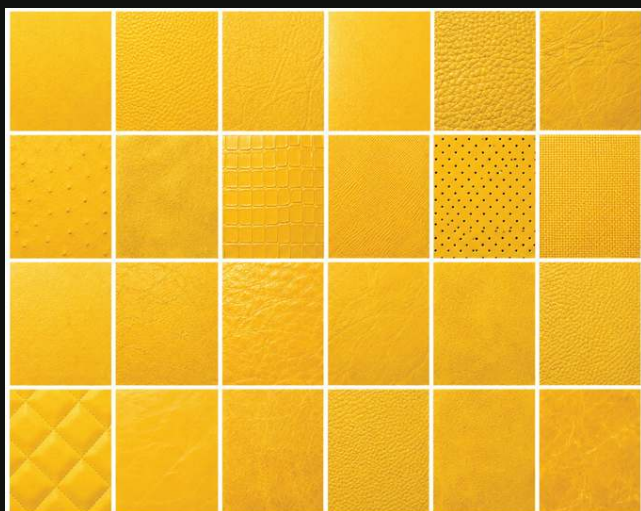
Dimensions

110–140 cm supplier-stated width. Test summary covers 0.8–3.5 mm; routine commercial sheet states 0.8–2.0 mm. Confirm production specification.

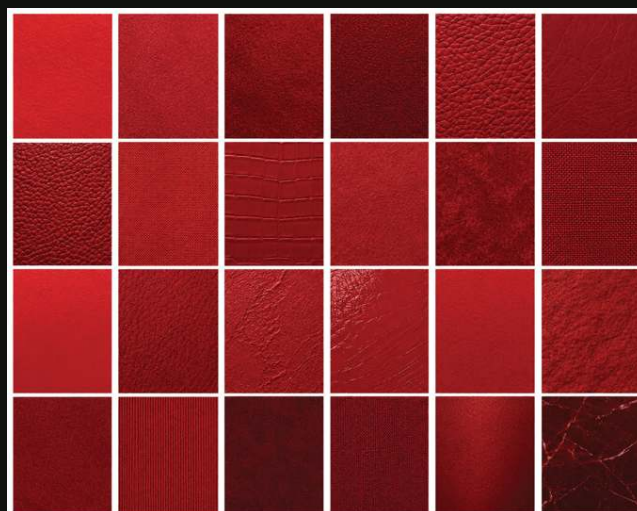
02 / ORIGINAL MATERIAL PHOTOGRAPHY

Colour & texture references

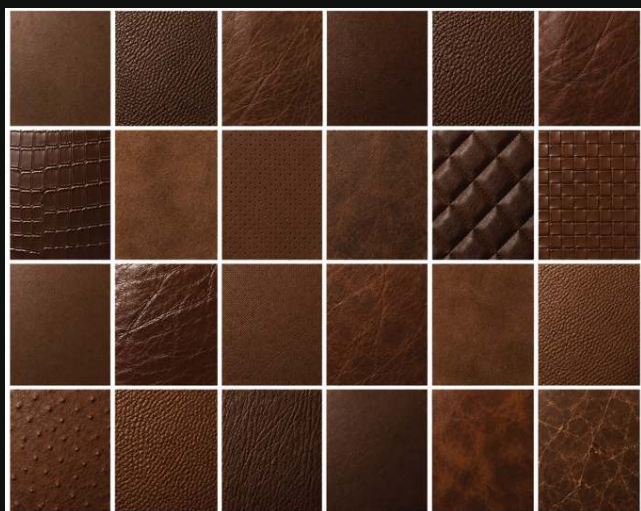
Supplier-provided surface references. Confirm colour, hand feel and grain against physical swatches; custom shades and prints are subject to feasibility.



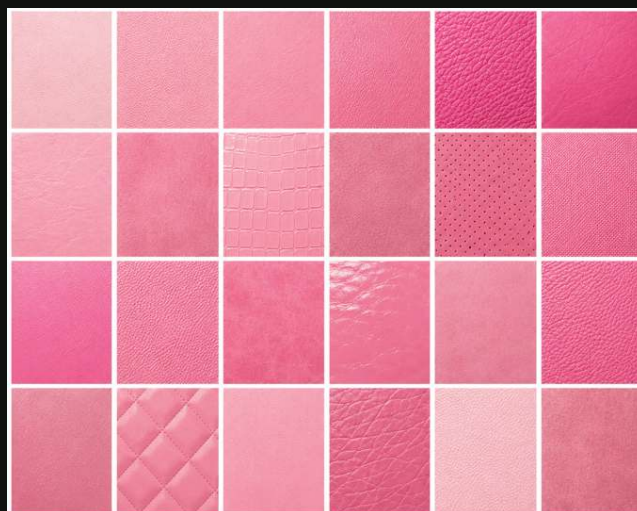
Yellow



Red



Brown



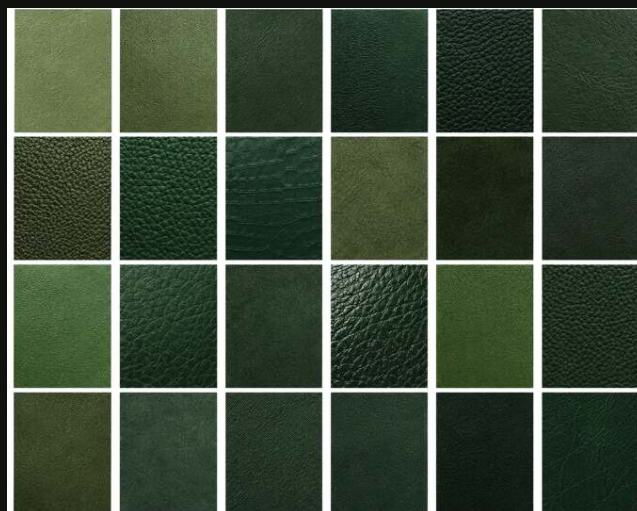
Pink

Colour & texture references

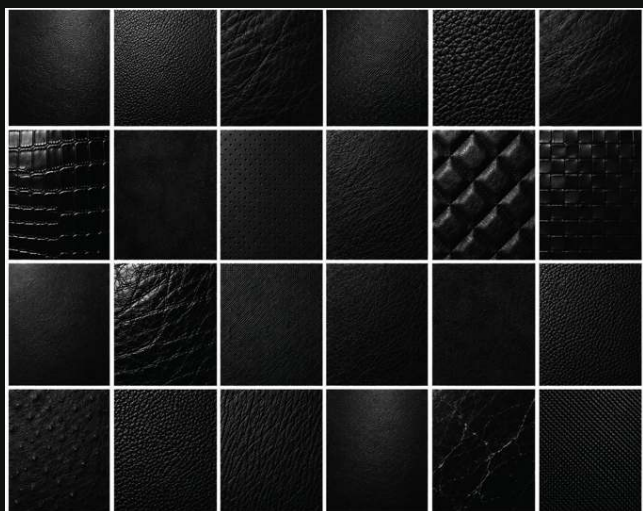
Supplier-provided surface references. Confirm colour, hand feel and grain against physical swatches; custom shades and prints are subject to feasibility.



Blue



Green



Black

03 / DEVELOPMENT

Develop for the end use

Handbags & totes

Structured bags and totes are shown in the supplied portfolio. Evaluate final construction against the intended design.

Wallets & small goods

Wallets, cardholders, watch straps, journals, tech sleeves and product covers are development references.

Belts, backpacks & luggage

Prototype and test the chosen grade for stress, wear and repeated handling.

Footwear & apparel

Application-specific development only. Dry cracking and severe wet cracking were reported at 30,000 flex cycles; do not assume unrestricted footwear suitability.

Finished-product portfolio photographs carry an NDA notice and are not reproduced pending publication permission.

04 / TECHNICAL DOSSIER

Reported laboratory results

Supplier-provided CSIR-CLRI summary, not a certification. Complete signed report, sample identity and test conditions were not supplied.

Thickness

ISO 2589

0.8–3.5 mm

Tensile strength

ISO 3376

 $\geq 14 \text{ N/mm}^2$

Elongation at break

ISO 3376

195–213%

Tear strength

SATRA TM162 / ISO 3377-2*

26.77–32.40 N

Rubbing fastness — dry

ISO 11640 / SATRA TM8

Grey scale 4/5 after 512 rubs

Rubbing fastness — wet

ISO 11640 / SATRA TM8

Grey scale 4/5 on material and felt after 256 rubs

*Confirm exact tear method, heat-test conditions and Martindale end point/rating.

04 / TECHNICAL DOSSIER

Reported laboratory results

Supplier-provided CSIR-CLRI summary, not a certification. Complete signed report, sample identity and test conditions were not supplied.

Mass per unit area

SATRA TM28

1,180.47 g/m²**Flex endurance — dry**

SATRA TM55

Crack observed at 30,000 cycles

Flex endurance — wet

SATRA TM55

Severe crack at 30,000 cycles

Heat resistance

ISO 17233*

Up to 80°C; conditions pending

Cold crack

ISO 4675

Pass at −10°C

Abrasion resistance

Martindale ISO 12947*

>35,000 cycles; end point pending

*Confirm exact tear method, heat-test conditions and Martindale end point/rating.

05 / COMMERCIAL PATHWAY

Sampling & care

Evaluation

Supplier pack shows 30 × 30 cm samples and an evaluation kit; availability and timing to be confirmed.

Custom development

Approximately 4.6 m² / 50 sq ft supplier-indicated for custom colourway development; confirm by construction.

Commercial ordering

Approximately 100 m² / 1,000 sq ft supplier-indicated MOQ and 45 days production lead time; reconfirm per order.

Care

Keep dry; wipe with a soft, slightly damp cloth, do not soak or use harsh chemicals. Air-dry naturally away from direct heat and sunlight.

Storage

Keep flat in a clean, dry, ventilated place. Avoid oils, sharp objects, stretching and sharp creases.

Evaluate before specifying

Technical results are transcribed from supplier-provided laboratory summaries, not a complete signed report. Sample identity and conditions require confirmation. The 50/50 formulation is not a verified whole-material composition.

No claim of plastic-free, fully bio-based, biodegradable, certified vegan, specific carbon or water savings, or service life is made here. Confirm construction and application-specific performance, especially flex endurance, before product specification.

The supplied product portfolio carries an NDA notice. Its finished-product photographs are not reproduced here pending explicit publication permission.

07 / BUYER ENQUIRIES

Discuss a requirement

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General enquiries: support@happigreensco.com

Enquiries answered within 48 hours.

Tell us the intended use, target colour, finish, quantity and destination. HappiGreens can coordinate samples, performance information and commercial discussion.