

FOOD WASTE & ALGAE

COFFEE BIO-LEATHER

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RENEWABLE - VEGAN - COMPOSTABLE  
MADE OF BY-PRODUCT OR WASTE



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INGREDIENTS & TOOLS:

- 6 g sodium alginate (polymer)
- 6 g used ground coffee (filler)
- 6 g vegetable oil (filler)
- 15 g glycerine (plasticizer)
- 100 g/ml water (solvent)
- calcium chloride solution 10%

Tools: blender, glass jar, spray bottle, acrylic or glass sheet for casting, painting tape, precision scale

THIS IS A VARIATION ON:

Coffee Bio-leather Bag by Fabtextiles.

Variation: casted on acrylic instead of in a frame. Using 10% solution.

MAKING PROCEDURE:

- Measure the ingredients
- Mix the alginate, vegetable oil, coffee waste and glycerine with a blender.
- Let the mixture rest overnight
- Cast onto a smooth sheet, distributing it evenly
- Spray with the calcium chloride solution all over
- On day 2-3: tape down flying edges to reduce warping
- Let dry for 5-7 days without moving. When dry, slowly peel off the sheet. Alternate pressing and drying for flatness

Shred for home-composting.