

WEEK 4

Biomaterials

The students can work in group, identifying tasks and splitting them, as long as they all proof they are able to carry out each task. They can choose to:

Produce at least one natural dye, modifying it's colour and mordanting it in different ways to dye at least 2 different categories of fibers.

Explore dyeing with bacteria of different fibers and bacteria

CLASS 4 ([HTTPS://CLASS.TEXTILE-ACADEMY.ORG/CLASSES/WEEK04/](https://class.textile-academy.org/classes/week04/))

SOFTWARE

SUBLIME, ADOBE ILLUSTRATOR, RINHO CEROS

MACHINES

LASER TROTEC SPEEDY 400 FLEX

MATERIALS

ORANGE PEEL, CORN STARCH, WATER, ACRILIC, FABRIC

DOWNLOAD FILES

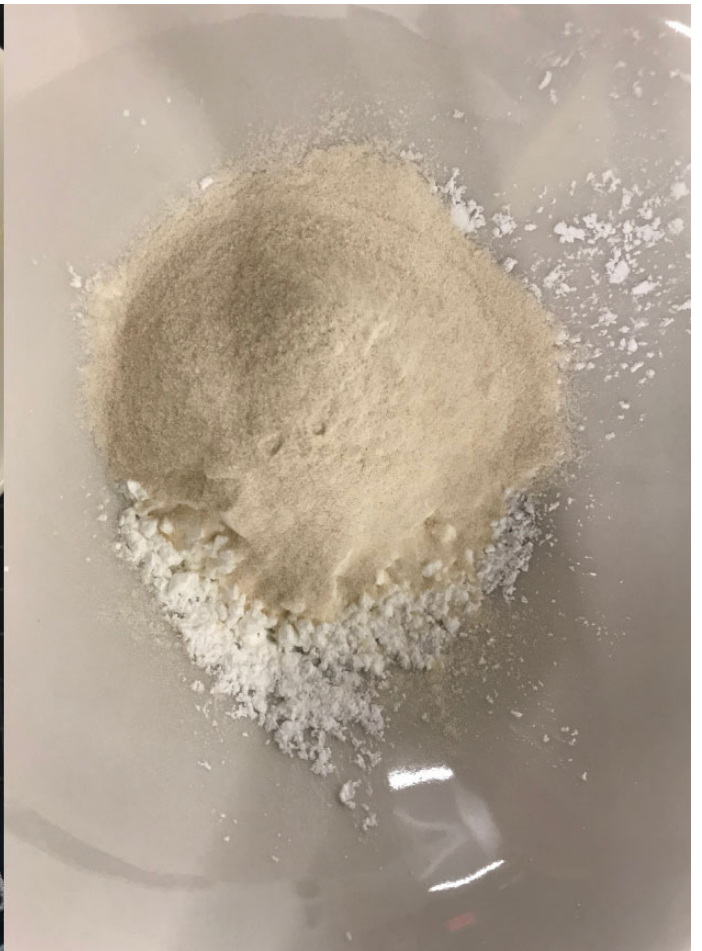
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How to make biomaterials



Orange peel

Dry the orange peel

I used the peels of tangerines to make this biomaterial. The first process has been to let the peels dry 4 days at room temperature. Once dry, I have crushed them in a food processor, I get an orange powder.

Ingredients

15gr Agar, 5,6 gr glycerin, Cornstach 15.2gr, 40gr tangerine powder, 61gr Water at 65C.



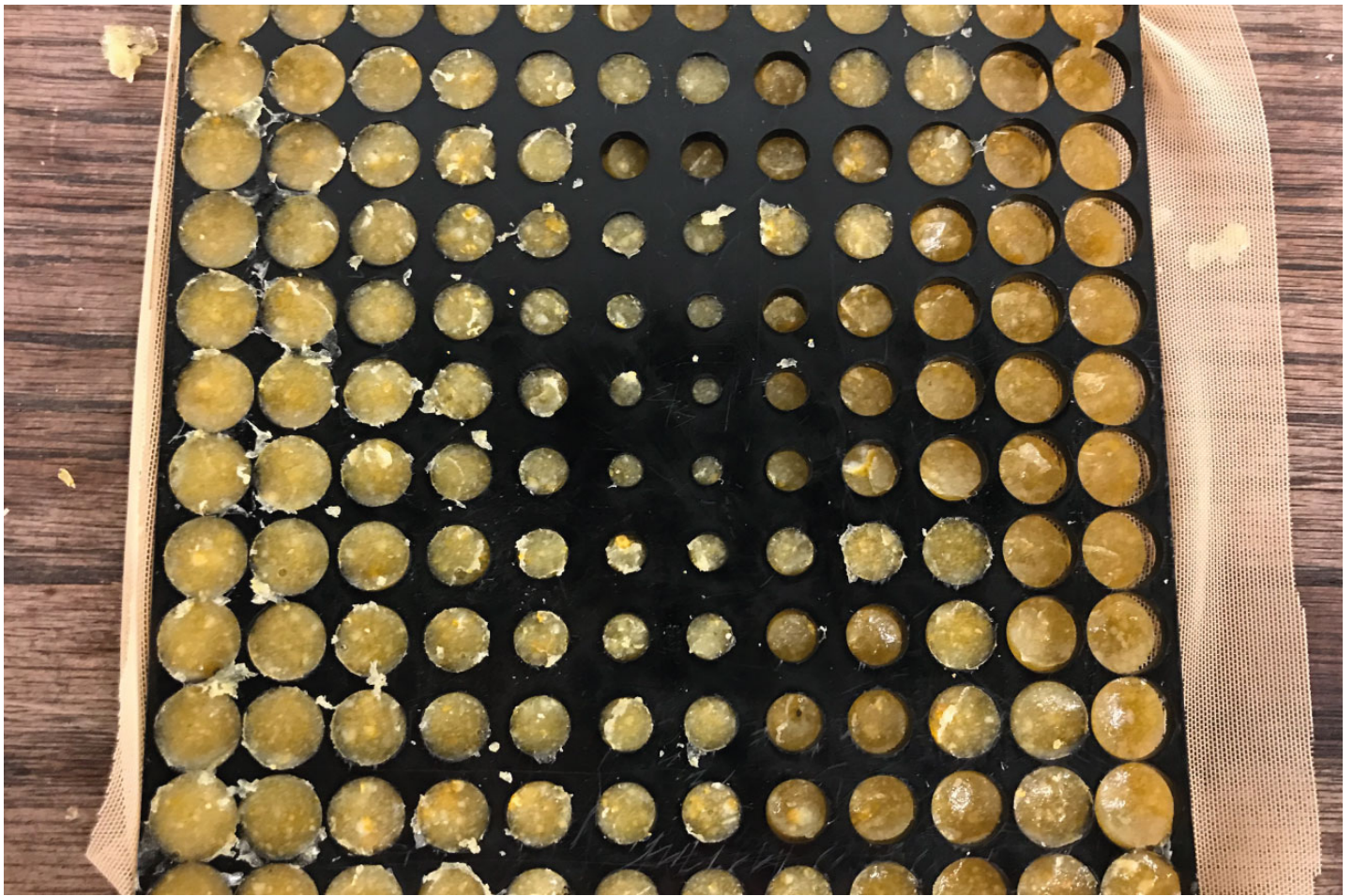


Mix with water

1.Mix cornstarch and agar in a bowl,mix until homogenous, 2.Mix with tangerine peel, 3.mix in water over dry mix, stirring, 4. Mix in glycerin, mixing with spoon and then kneading with finger tips, 5. Press into molds

Creating texture

For the voronoi texture, I have printed in 3d a stamp, to be able to press the material and leave the pattern on the surface as a texture. Voroni stamp
(<https://www.thingiverse.com/thing:2855713>)



Creating pattern

For this prototype, I thought about using a stencil on the tulle fabric, to create a volumetric pattern made with the orange peel biomaterial.

Expand in the fabric

By expanding the biomaterial on the stencil has been embedded in the holes of the tulle fabric, fixed on the fabric in a very stable and durable.





Fabric Detail

Results

Results



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