

Assignment04 – Exploring Bioplastics

Pınar Bařtimur-Helin İrem Abık



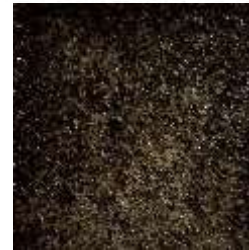
RECIPE 1

Forming Technique
framing

References

<http://www.materiom.org/recipe/692>

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Ingredient List

30gr tea grounds 6gr glycerol 36gr gelatin 180ml water



Preparation Steps



Material Assessments

1		5		1		5
hard	4	soft	opaque	1	transparent	
smooth	3	rough	tough	3	ductile	
matte	1	glassy	light	5	heavy	
elastic	3	not-elastic	fibred	1	not-fibred	
strong	1	weak				



RECIPE 2

Forming Technique
framing

References

<http://fabtextiles.org/tag/bioplasic/>

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Ingredient List

16gr charcoal 10gr glycerol 10gr gelatin 100ml water

QR CODE

Preparation Steps



Material Assessments

1		5	1	5	
hard	3	soft	opaque	3	transparent
smooth	3	rough	tough	3	ductile
matte	3	glassy	light	3	heavy
elastic	3	not-elastic	fibred	2	not-fibred
strong	2	weak			

BIOPLASTIC LIBRARY

Computation Based Basic Design @ BILGI
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RECIPE 3

Forming Technique
framing

References

<http://www.materiom.org/recipe/694>

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Ingredient List

13gr sodium bicarbonate	5gr glycerol	35gr gelatin	50gr vinegar	100ml water
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QR CODE

Preparation Steps



Material Assessments

1	5	5	1	5
hard	5	soft	opaque	4
smooth	1	rough	tough	4
matte	4	glassy	light	4
elastic	3	not-elastic	fibred	1
strong	3	weak		

BIOPLASTIC LIBRARY

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RECIPE 4

Forming Technique
pattern

References

<https://www.youtube.com/watch?v=sj-dFSsOX7I>

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Ingredient List

2 drops beetrot dye 1 tea s glycerol 1 table s starch 1 tea s vinegar 5 table s water



Preperation Steps



Material Assessments

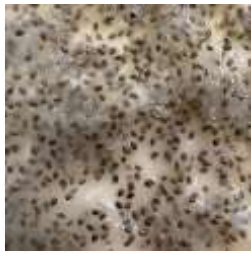
1	5	1	5
hard	1	opaque	4
smooth	1	tough	1
matte	1	light	1
elastic	5	fibred	5
strong	2	weak	5
			transparent
			ductile
			heavy
			not-fibred



RECIPE 5

Forming Technique
winding

References



Ingredient List

- 1 table s chia seeds
- 1 tea s glycerol
- 2 tea s starch
- 1 tea s vinegar
- 5 table s water



Preparation Steps

5 min baking

Material Assessments

1	5	1	5
hard	1	soft	3
smooth	1	rough	1
matte	1	glassy	1
elastic	5	not-elastic	1
strong	1	weak	1
		opaque	3
		tough	1
		light	1
		fibred	1
		transparent	3
		ductile	1
		heavy	1
		not-fibred	1



RECIPE 6

Ingredient List

- 1 tea s clay
- 1 tea s glycerol
- 3 table s starch
- 3 tea s vinegar
- 8 table s water



Preparation Steps



Material Assessments

1	5	1	5
hard	1	opaque	1
smooth	5	tough	3
matte	1	light	3
elastic	4	fibred	5
strong	3	weak	
			transparent
			ductile
			heavy
			not-fibred

Forming Technique
kneading



References
https://issuu.com/nat_arc/docs/bioplastic_cook_book_3/8?ff&ssp_ia_bi=1682958809063

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