



## RECIPE 01

Forming Technique  
Moulding

### References

<http://www.materiom.org/search>  
<https://isola.design/home>



### Ingredient List



Glycerin



Vinegar



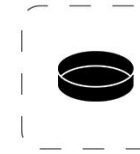
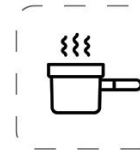
Gelatin



Water



### Preparation Steps

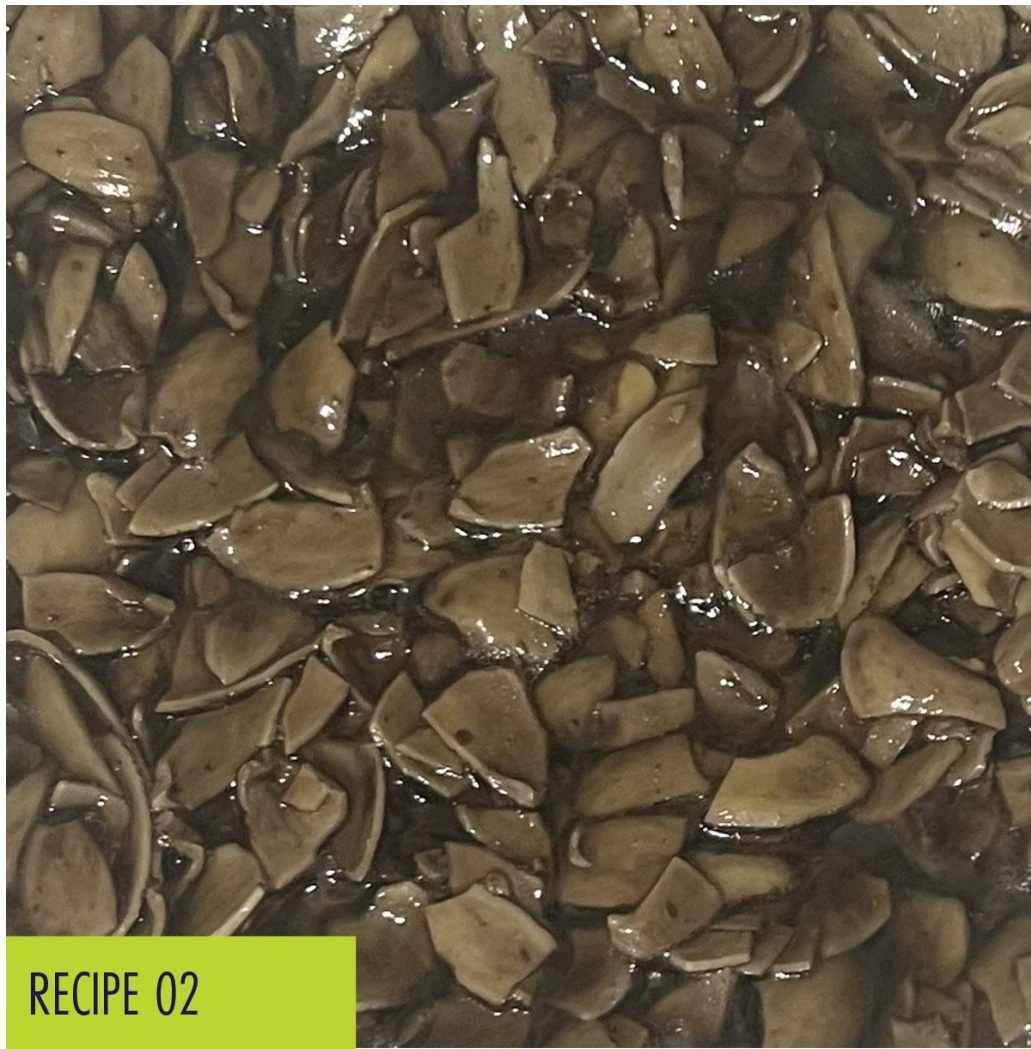


### Material Assessments

hard	<div><div></div><div></div><div></div><div></div><div></div></div>	soft	
smooth	<div><div></div><div></div><div></div><div></div><div></div></div>	rough	
matte	<div><div></div><div></div><div></div><div></div><div></div></div>	glossy	
elastic	<div><div></div><div></div><div></div><div></div><div></div></div>	not elastic	
strong	<div><div></div><div></div><div></div><div></div><div></div></div>	weak	

opaque	<div><div></div><div></div><div></div><div></div><div></div></div>	transparent	
tough	<div><div></div><div></div><div></div><div></div><div></div></div>	ductile	
light	<div><div></div><div></div><div></div><div></div><div></div></div>	heavy	
fibred	<div><div></div><div></div><div></div><div></div><div></div></div>	not-fibred	





## RECIPE 02

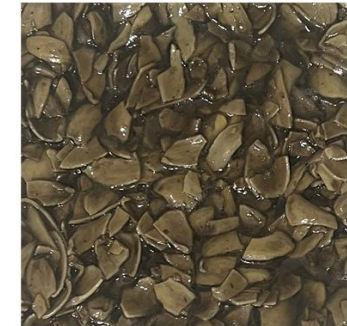
### Forming Technique

Moulding

### References

<http://www.materiom.org/search>

<https://isola.design/home>



### Ingredient List



Glycerin



Vinegar



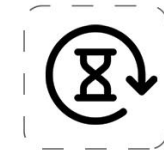
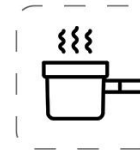
Gelatin



Water



### Preparation Steps



### Material Assessments

hard	<div><div></div><div></div><div></div><div></div><div></div></div>	soft	<div><div></div><div></div><div></div><div></div><div></div></div>
smooth	<div><div></div><div></div><div></div><div></div><div></div></div>	rough	<div><div></div><div></div><div></div><div></div><div></div></div>
matte	<div><div></div><div></div><div></div><div></div><div></div></div>	glossy	<div><div></div><div></div><div></div><div></div><div></div></div>
elastic	<div><div></div><div></div><div></div><div></div><div></div></div>	not elastic	<div><div></div><div></div><div></div><div></div><div></div></div>
strong	<div><div></div><div></div><div></div><div></div><div></div></div>	weak	<div><div></div><div></div><div></div><div></div><div></div></div>

opaque	<div><div></div><div></div><div></div><div></div><div></div></div>	transparent	<div><div></div><div></div><div></div><div></div><div></div></div>
tough	<div><div></div><div></div><div></div><div></div><div></div></div>	ductile	<div><div></div><div></div><div></div><div></div><div></div></div>
light	<div><div></div><div></div><div></div><div></div><div></div></div>	heavy	<div><div></div><div></div><div></div><div></div><div></div></div>
fibred	<div><div></div><div></div><div></div><div></div><div></div></div>	not-fibred	<div><div></div><div></div><div></div><div></div><div></div></div>





## RECIPE 03

### Ingredient List



Glycerin



Vinegar



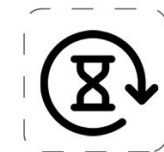
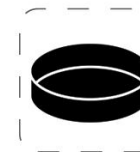
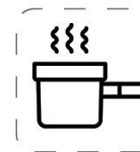
Gelatin



Water



### Preparation Steps



### Material Assessments

hard	<div><div></div><div></div><div></div><div></div><div></div></div>	soft
smooth	<div><div></div><div></div><div></div><div></div><div></div></div>	rough
matte	<div><div></div><div></div><div></div><div></div><div></div></div>	glossy
elastic	<div><div></div><div></div><div></div><div></div><div></div></div>	not elastic
strong	<div><div></div><div></div><div></div><div></div><div></div></div>	weak

opaque	<div><div></div><div></div><div></div><div></div><div></div></div>	transparent
tough	<div><div></div><div></div><div></div><div></div><div></div></div>	ductile
light	<div><div></div><div></div><div></div><div></div><div></div></div>	heavy
fibred	<div><div></div><div></div><div></div><div></div><div></div></div>	not-fibred

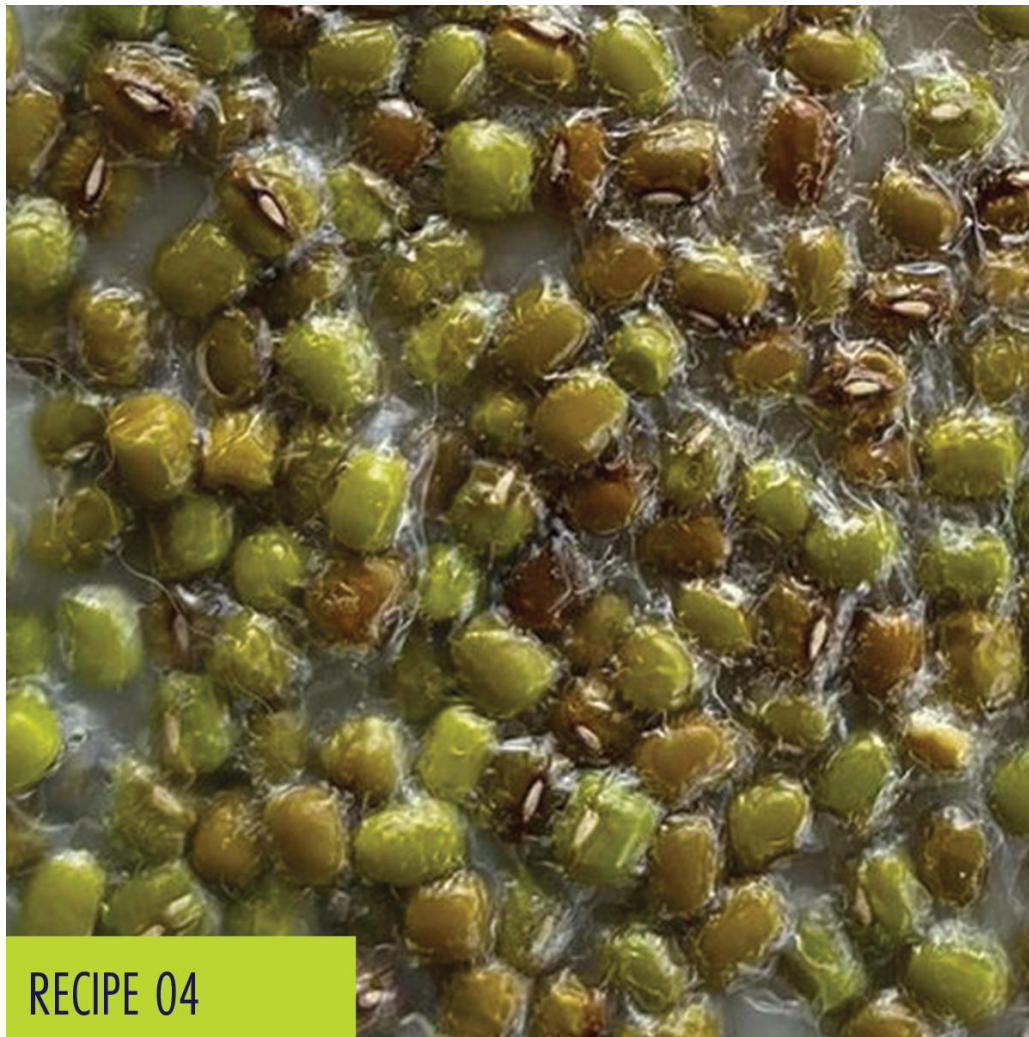
Forming Technique  
Moulding

### References

<http://www.materiom.org/search>  
<https://isola.design/home>







## RECIPE 04

### Ingredient List



Glycerin



Vinegar



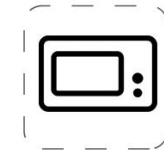
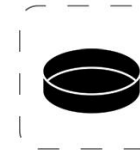
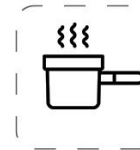
Starch



Water



### Preparation Steps



### Material Assessments

hard	<div><div></div><div></div><div></div><div></div><div></div></div>	soft
smooth	<div><div></div><div></div><div></div><div></div><div></div></div>	rough
matte	<div><div></div><div></div><div></div><div></div><div></div></div>	glossy
elastic	<div><div></div><div></div><div></div><div></div><div></div></div>	not elastic
strong	<div><div></div><div></div><div></div><div></div><div></div></div>	weak

opaque	<div><div></div><div></div><div></div><div></div><div></div></div>	transparent
tough	<div><div></div><div></div><div></div><div></div><div></div></div>	ductile
light	<div><div></div><div></div><div></div><div></div><div></div></div>	heavy
fibred	<div><div></div><div></div><div></div><div></div><div></div></div>	not-fibred

Forming Technique  
Moulding

### References

<http://www.materiom.org/search>  
<https://isola.design/home>







## RECIPE 05

Forming Technique  
Mould

### References

<http://www.materiom.org/search>  
<https://isola.design/home>



### Ingredient List



Glycerin



Vinegar



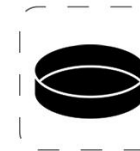
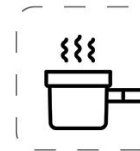
Starch



Water



### Preparation Steps



### Material Assessments

hard	<div><div></div><div></div><div></div><div></div><div></div></div>	soft	<div><div></div><div></div><div></div><div></div><div></div></div>
smooth	<div><div></div><div></div><div></div><div></div><div></div></div>	rough	<div><div></div><div></div><div></div><div></div><div></div></div>
matte	<div><div></div><div></div><div></div><div></div><div></div></div>	glossy	<div><div></div><div></div><div></div><div></div><div></div></div>
elastic	<div><div></div><div></div><div></div><div></div><div></div></div>	not elastic	<div><div></div><div></div><div></div><div></div><div></div></div>
strong	<div><div></div><div></div><div></div><div></div><div></div></div>	weak	<div><div></div><div></div><div></div><div></div><div></div></div>

opaque	<div><div></div><div></div><div></div><div></div><div></div></div>	transparent	<div><div></div><div></div><div></div><div></div><div></div></div>
tough	<div><div></div><div></div><div></div><div></div><div></div></div>	ductile	<div><div></div><div></div><div></div><div></div><div></div></div>
light	<div><div></div><div></div><div></div><div></div><div></div></div>	heavy	<div><div></div><div></div><div></div><div></div><div></div></div>
fibred	<div><div></div><div></div><div></div><div></div><div></div></div>	not-fibred	<div><div></div><div></div><div></div><div></div><div></div></div>



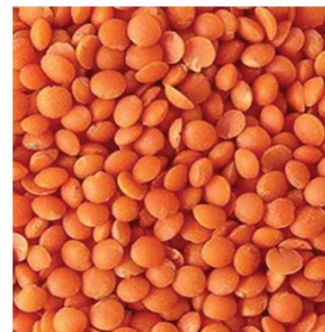


## RECIPE 06

Forming Technique  
Moulding

### References

<http://www.materiom.org/search>  
<https://isola.design/home>



### Ingredient List



Glycerin



Vinegar



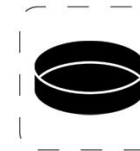
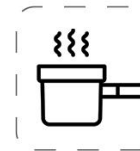
Starch



Water



### Preparation Steps



### Material Assessments

hard	<div><div></div><div></div><div></div><div></div><div></div></div>	soft	<div><div></div><div></div><div></div><div></div><div></div></div>
smooth	<div><div></div><div></div><div></div><div></div><div></div></div>	rough	<div><div></div><div></div><div></div><div></div><div></div></div>
matte	<div><div></div><div></div><div></div><div></div><div></div></div>	glossy	<div><div></div><div></div><div></div><div></div><div></div></div>
elastic	<div><div></div><div></div><div></div><div></div><div></div></div>	not elastic	<div><div></div><div></div><div></div><div></div><div></div></div>
strong	<div><div></div><div></div><div></div><div></div><div></div></div>	weak	<div><div></div><div></div><div></div><div></div><div></div></div>

opaque	<div><div></div><div></div><div></div><div></div><div></div></div>	transparent	<div><div></div><div></div><div></div><div></div><div></div></div>
tough	<div><div></div><div></div><div></div><div></div><div></div></div>	ductile	<div><div></div><div></div><div></div><div></div><div></div></div>
light	<div><div></div><div></div><div></div><div></div><div></div></div>	heavy	<div><div></div><div></div><div></div><div></div><div></div></div>
fibred	<div><div></div><div></div><div></div><div></div><div></div></div>	not-fibred	<div><div></div><div></div><div></div><div></div><div></div></div>





S-1



S-2



S-3

Starch based samples

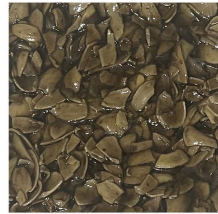
S1,2,3



G-1



G-2



G-3

Gelatin based samples

G1,2,3



Drying Method

Temperature

Time period

S-1  
-50 ml water  
-10 ml glycerine  
-12 gr starch  
-5 ml vinegar  
-15 gr mung beans

oven: ☒

air fryer: ☐

air dry: ☐

-100°C

-2 minutes

S-2  
-50 ml water  
-10 ml glycerine  
-12 gr starch  
-5 ml vinegar  
-15 gr green lentils

oven: ☒

air fryer: ☐

air dry: ☐

-100°C

-2 minutes

S-3  
-50 ml water  
-10 ml glycerine  
-12 gr starch  
-5 ml vinegar  
-15 gr red lentil

oven: ☒

air fryer: ☐

air dry: ☐

-100°C

-2 minutes

Drying Method

Temperature

Time period

G-1  
-5 gr glycerine  
-24 gr gelatin  
-20 ml vinegar  
-60 ml water  
-75 gr peanut shell

oven: ☐

air fryer: ☐

air dry: ☒

20°C

14 hours

G-2  
-5 gr glycerine  
-24 gr gelatin  
-20 ml vinegar  
-60 ml water  
-75 gr walnut shell

oven: ☐

air fryer: ☐

air dry: ☒

20°C

10 hours

G-3  
-5 gr glycerine  
-24 gr gelatin  
-20 ml vinegar  
-60 ml water  
-75 gr pistachio shell

oven: ☐

air fryer: ☐

air dry: ☒

20°C

12 hours

Observations about the materials and their effects (starch based)

- 1) Different kinds of materials allowed us to get different texture
- 2) Mung bean formed a hollow structure due to its shape
- 3) Red lentil became more elastic than others because of its structure
- 4) Green lentil became loose due to its shape

Observations about the materials and their effects: (gelatin based)

- 1) All became opaque due to shell structure
- 2) Peanut shell became more elastic because it was small
- 3) Walnut shells became rougher as they were larger
- 4) Walnut shells became stronger because they were larger