

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

32 gr Tapioca Starch
180 gr Water
15 gr Glycerol
45 gr Vinegar

oven: ☐

air fryer: ☐

air dry: ☒

20°C

1 day

G-1

-60 gr Water
-12 gr Gelatin
-2 gr Glycerol

oven: ☐

air fryer: ☐

air dry: ☒

20°C

14 hours

S-2

32 gr Tapioca Starch
180 gr Water
15 gr Glycerol
45 gr Lemon Juice

oven: ☐

air fryer: ☐

air dry: ☒

20°C

1 day

G-2

-60 gr Water
-12 gr Gelatin
-2 gr Agave

oven: ☐

air fryer: ☐

air dry: ☒

20°C

14 hours

S-3

32 gr Tapioca Starch
180 gr Water
15 gr Glycerol
45 gr Orange Juice

oven: ☐

air fryer: ☐

air dry: ☒

20°C

1,5 day

G-3

-60 gr Water
-12 gr Gelatin
-2 gr Honey

oven: ☐

air fryer: ☐

air dry: ☒

20°C

14 hours

Observations about the materials and their effects (starch based)

- 1) Recipe with orange juice dried out the longest.
- 2) Recipe with vinegar is the most sticky one.
- 3) Recipe with orange juice is the most elastic and softest result.
- 4) All 3 starch recipes have different colours: Vinegar is light orange, lemon juice is white, orange juice is yellow.

Eda Elif Bayraktar
Tutku Tosun

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

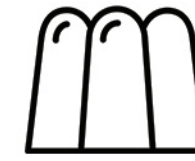
- 1) The recipe containing glycerin, has the most durable and rigid result.
- 2) All 3 gelatin recipes shrank as they dried.
- 3) The recipe with the softest texture was the one containing agave.
- 4) During the boiling process, different amounts of foam were formed in all 3 recipes.



Ingredient List



Water



Gelatin



Glycerine

Preperation Steps



Pouring ingredients
in a bowl.



Mixing them.



Boiling them in
a cooker.



Air drying.

Material Assessments

hard ☐ ☐ ☒ ☐ ☐

soft

smooth ☐ ☐ ☒ ☐ ☐

rough

matte ☐ ☐ ☒ ☐ ☐

glossy

elastic ☐ ☐ ☒ ☐ ☐

not elastic

strong ☒ ☐ ☐ ☐ ☐

weak

opaque ☐ ☐ ☒ ☐ ☐

transparent

tough ☒ ☐ ☐ ☐ ☐

ductile

light ☒ ☐ ☐ ☐ ☐

heavy

fibred ☐ ☐ ☐ ☒ ☐

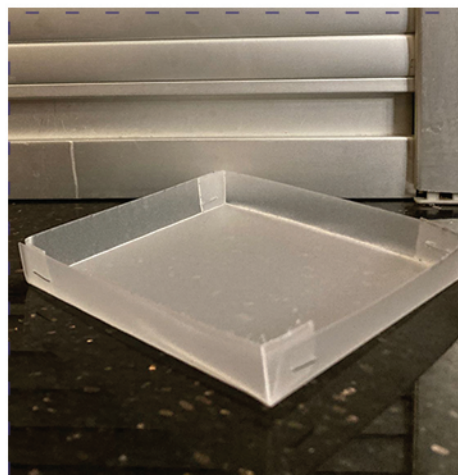
not-fibred

G-1

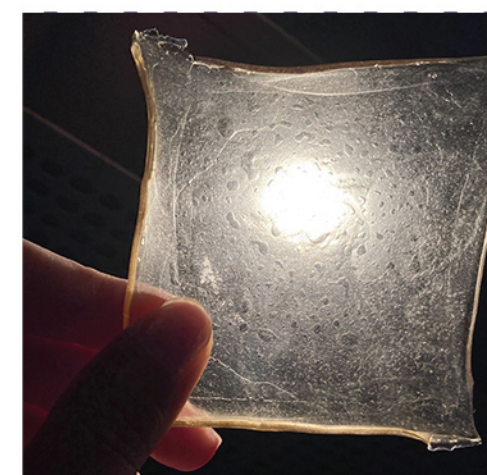
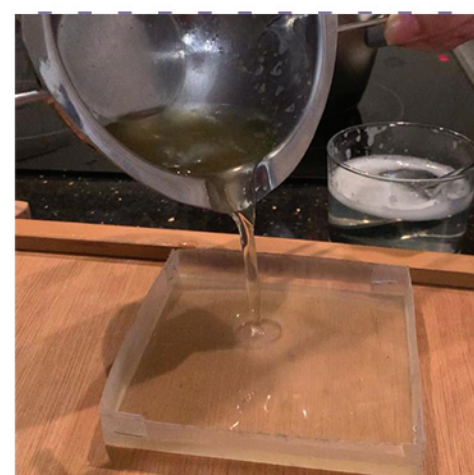
Forming Technique

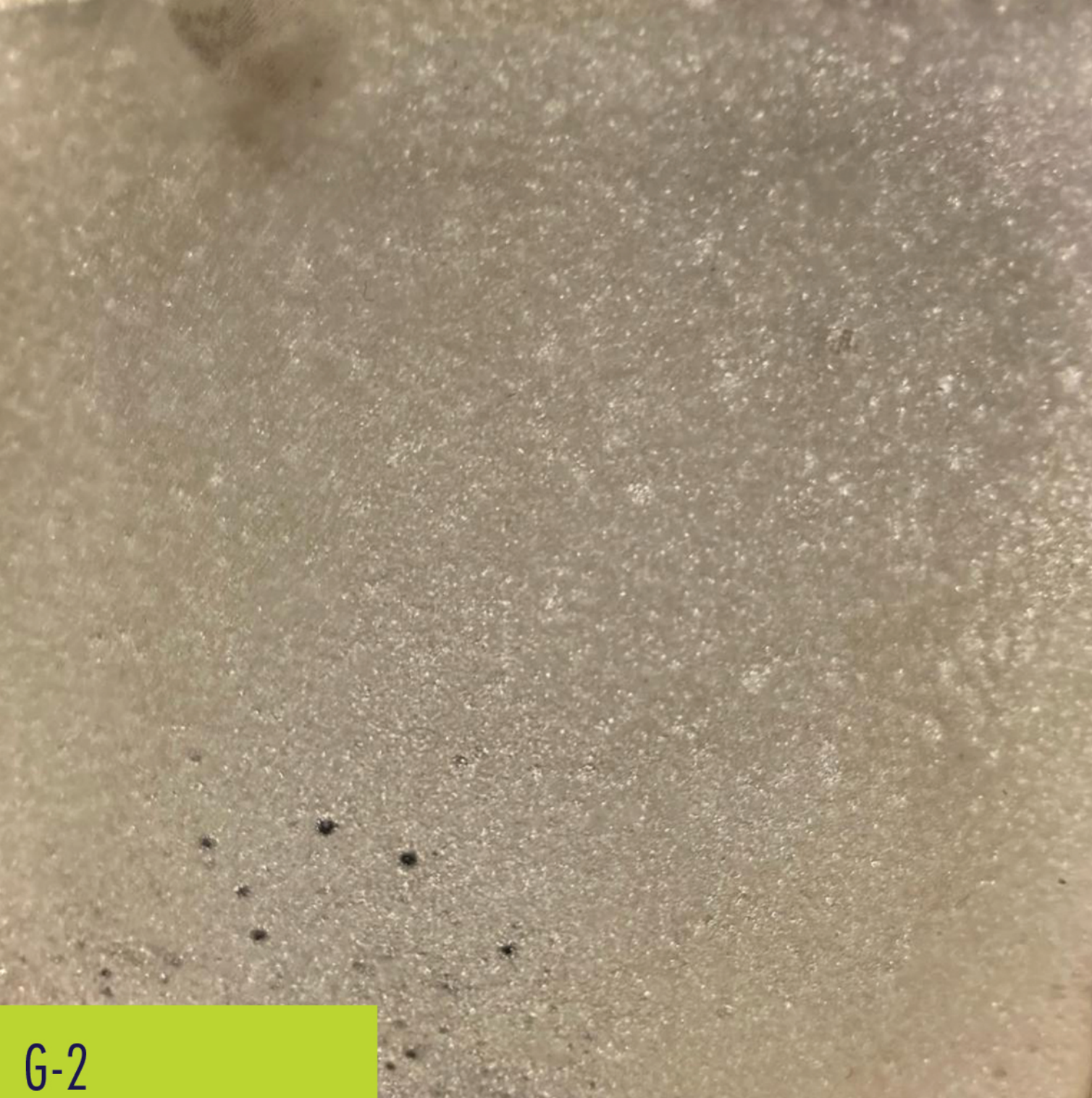
References

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



Forming Technique
Photo

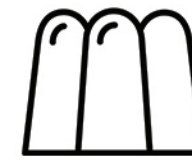




Ingredient List



Water



Gelatin



Agave Syrup



Preperation Steps



Pouring ingredients
in a bowl.



Mixing them.



Boiling them in
a cooker.



Air drying.

Material Assessments

hard ☐ ☐ ☒ ☐ ☐

soft

smooth ☐ ☐ ☒ ☐ ☐

rough

matte ☐ ☒ ☐ ☐ ☐

glossy

elastic ☐ ☐ ☒ ☐ ☐

not elastic

strong ☒ ☐ ☐ ☐ ☐

weak

opaque ☐ ☒ ☐ ☐ ☐

transparent

tough ☐ ☒ ☐ ☐ ☐

ductile

light ☐ ☒ ☐ ☐ ☐

heavy

fibred ☐ ☐ ☐ ☒ ☐

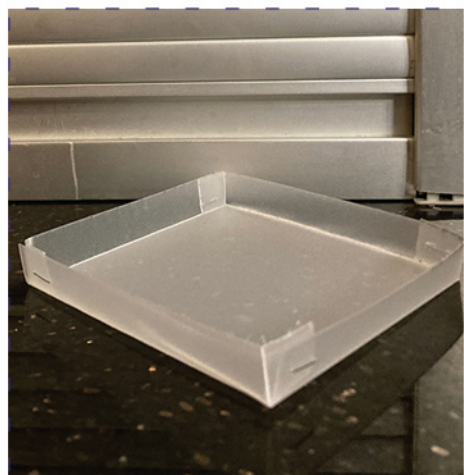
not-fibred

G-2

Forming Technique

References

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



Forming Technique
Photo

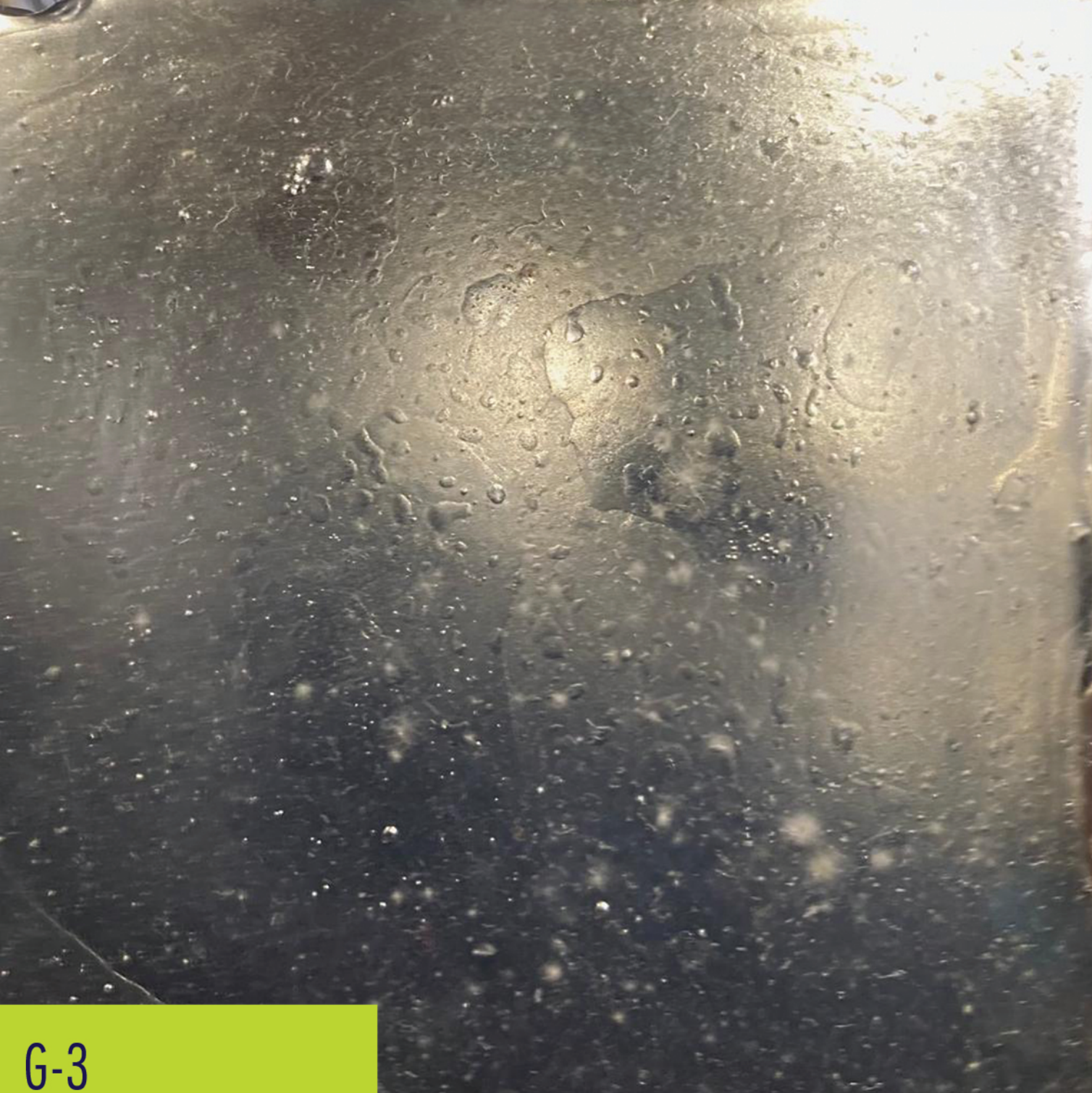


Front side



Back side

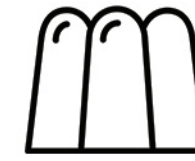




Ingredient List



Water



Gelatin



Honey

Preperation Steps



Pouring ingredients
in a bowl.



Mixing them.



Boiling them in
a cooker.



Air drying.

Material Assessments

hard ☐ ☒ ☐ ☐ ☐

soft

smooth ☐ ☐ ☐ ☒ ☐

rough

matte ☐ ☐ ☒ ☐ ☐

glossy

elastic ☐ ☐ ☐ ☒ ☐

not elastic

strong ☒ ☐ ☐ ☐ ☐

weak

opaque ☐ ☒ ☐ ☐ ☐

transparent

tough ☐ ☒ ☐ ☐ ☐

ductile

light ☐ ☒ ☐ ☐ ☐

heavy

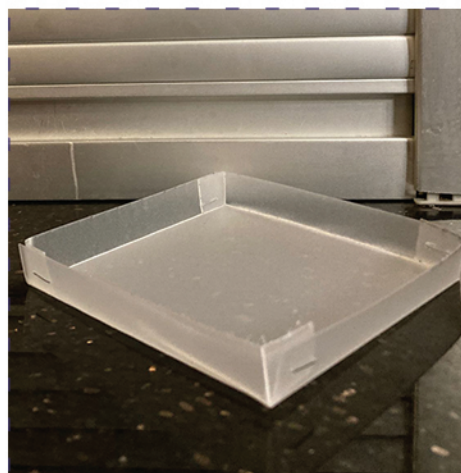
fibred ☐ ☐ ☐ ☒ ☐

not-fibred

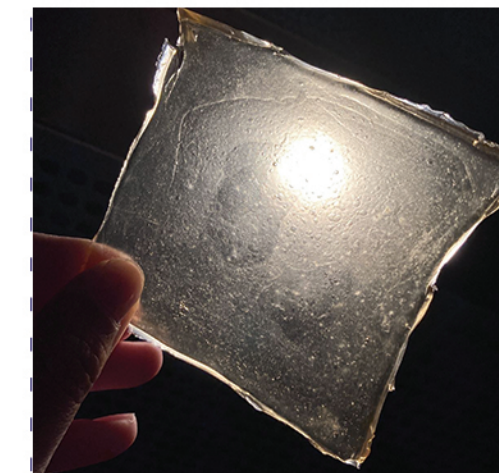
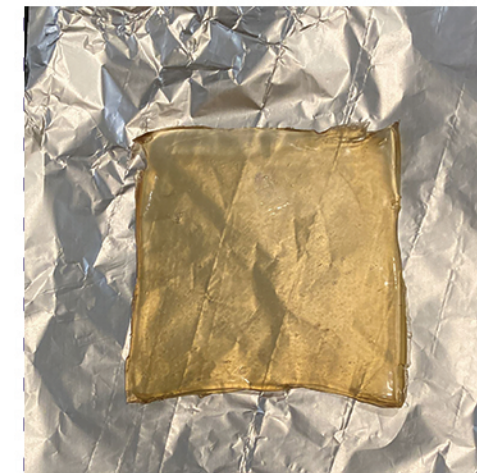
Forming Technique

References

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



Forming Technique
Photo





S-1

Ingredient List



Water



Tapioca Starch



Vinegar



Glycerine



Preperation Steps



Pouring ingredients
in a bowl.



Mixing them.



Boiling them in
a cooker.



Air drying.

Material Assessments

hard ☐ ☐ ☐ ☒ ☐

soft

smooth ☒ ☐ ☐ ☐ ☐

rough

matte ☐ ☒ ☐ ☐ ☐

glossy

elastic ☐ ☒ ☐ ☐ ☐

not elastic

strong ☐ ☐ ☒ ☐ ☐

weak

opaque ☐ ☐ ☐ ☒ ☐

transparent

tough ☐ ☐ ☐ ☒ ☐

ductile

light ☒ ☐ ☐ ☐ ☐

heavy

fibred ☐ ☐ ☐ ☒ ☐

not-fibred

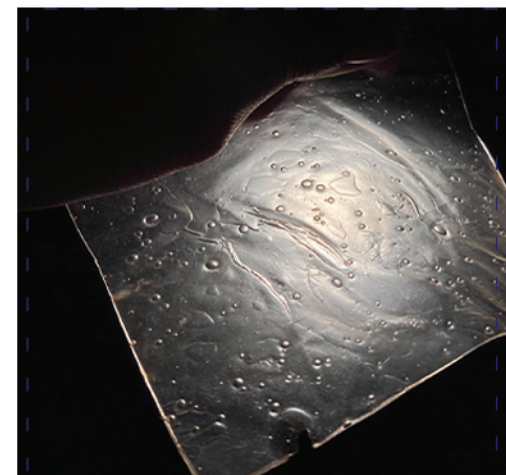
Forming Technique

References

<https://vm.tiktok.com/ZMYK4hmp1/>



Forming Technique
Photo





Ingredient List



Water



Tapioca Starch



Lemon Juice



Glycerine



Preperation Steps



Pouring ingredients
in a bowl.



Mixing them.



Boiling them in
a cooker.



Air drying.

Material Assessments

hard ☐ ☐ ☐ ☒ ☐

soft

smooth ☒ ☐ ☐ ☐ ☐

rough

matte ☒ ☐ ☐ ☐ ☐

glossy

elastic ☒ ☐ ☐ ☐ ☐

not elastic

strong ☐ ☐ ☐ ☒ ☐

weak

opaque ☐ ☐ ☒ ☐ ☐

transparent

tough ☐ ☐ ☐ ☐ ☒

ductile

light ☒ ☐ ☐ ☐ ☐

heavy

fibred ☐ ☐ ☐ ☐ ☒

not-fibred

S-2

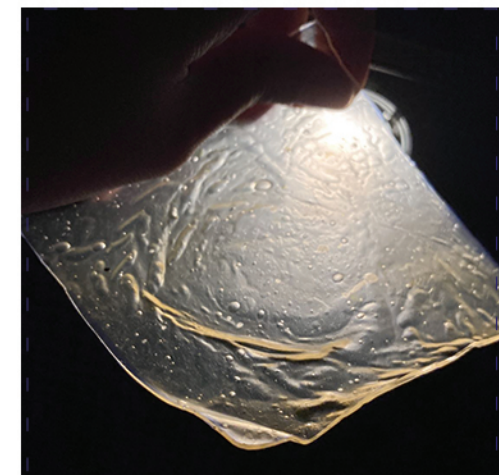
Forming Technique

References

<https://vm.tiktok.com/ZMYK4hmp1/>



Forming Technique
Photo





Ingredient List



Water



Tapioca Starch



Orange Juice



Glycerine



Preperation Steps



Pouring ingredients
in a bowl.



Mixing them.



Boiling them in
a cooker.



Air drying.

Material Assessments

hard	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	soft
smooth	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	rough
matte	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	glossy
elastic	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	not elastic
strong	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	weak

opaque	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	transparent
tough	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	ductile
light	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	heavy
fibred	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	not-fibred

S-3

Forming Technique

References

<https://vm.tiktok.com/ZMYK4hmp1/>



Forming Technique
Photo

