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## Miele-mbrane

A custom cooling membrane that adapts to groceries' shape and temperature.

### Observation

Convenience, sustainability, smartness in space, energy, connectivity, etc. , design... are things that we all like having around us , and having clever solutions that make our lives easier w/o adding bulk and complications to our surroundings...

For these kinds of problems, we need solutions that are almost invisible, and that don't add complexity to the actual processes, and take valuable space in our households. something clean and flexible...

### Conclusion

FLEXIBILITY... yes, to be able to transform something from one thing to another and be able to perform diferent and various tasks with this transformation. we need stuff and gadjets that don't just do 1 function, we need stuff that deliver not 100% ( solve 1 problem) but stuff that solve many problems.. something like delivering 500%...

to think beyond the box...



### Solution

This flexible membrane, adapts to your groceries shape and temperature, giving only the necessary cold to the product that needs it, keeping each product in its perfect state.

while not in use, the membrane does not use any energy or space, its "invisible".

Keeps groceries cool & clean , not only by refrigeration, but also using vaccum sealing and isolation. energy efficient.

mielembane can hold not only cool groceries, but any kind

no energy wasted to cool empty space

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# Miele mbrane

the smart sensor grid and the insulation create the perfect atmosphere for each and every product. All at once...

- meat (x°)
- veggies (y°)
- dairy (z°)
- icecream (w°)
- beer (b°)
- juice (j°)
- bread (o°)

the grid wil automatically keep the optimal temp. for each product, helping itself by a temp tag in each product, or by smart identification of each.



### Pain Point

Mielembrane is flat, it will transform according what it has inside... and provide custom cooling to each and every product.

Mielembrane is accessed from the outside by fingerprint, which the owner pre-approves.

mb is a step in between courier and customer. food stays not in or out but inbetween

Keep cool with Miele



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Product in its environment  
easy access to chilled food

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Product views

the science.

after the food is inserted in the flat flexible mielembrane, the membrane will proceed to vaccum seal itself keeping the groceries insulated and custom chilled by the smart sensor grid.

the membrane will adapt to the groceries shape , size and temp.

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**1:** order received... customer approves delivery courier's fingerprint to have access to the mieembrane.

**2:** courier takes the prods in a special protective bag that will be hung in the membrane.

**3:** the membrane can be used with or without the special bag, however the bag makes it easier... there will be different bag designs according to what you order. all reusable.

**4:** courier access the membrane door & chucks the bag in place. shuts the door and leaves.

**5:** the membrane does its magic and keeps it cool.

**5:** user opens door from inside. takes away the special bag. membrane goes back to discrete & standby mode. (flat and not using any energy)

**6:** takes the bag and puts it directly in the fridge or puts each product in place in the fridge.

Product in use  
process

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Additional info

flexibility & possibilities for other services

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### Creative's profile



**Marios MOncadas** PRO  
INDUSTRIAL DESIGNER, SUSTAINABLE  
PRODUCT DESIGN MA  
Colima, Mexico

### Creative's top 5 skills

Graphic Design, Product Design

### Third party materials used

<https://freevector.co/logos-vector/miele-logo-vector.html>

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