



buoy, made 100% from marine waste



http://www.techno-labo.com/buoy_en

【Inquiry/Order】

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◆buoy-team

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buoy, made 100% from marine waste

buoy
Techno-Labo Co., Ltd.



interior tray-round

◆New Coaster

\$ 20.00 (USD)
100Φ
☆renewal 2023/1/5

◆Tray-S

\$ 20.00 (USD)
90Φ×H15

◆Tray-M

\$ 40.00 (USD)
140Φ×H25

◆Tray-L

\$ 70.00 (USD)
200Φ×H35

※It's not tableware.



leaf

◆clip tray

\$ 23.00 (USD)
L132 W72 H18

◆leaf mini-A

\$ 19.00 (USD)
L66 W72 H17.5

◆pen tray

\$ 32.00 (USD)
L220 W85 H20

◆leaf mini-B

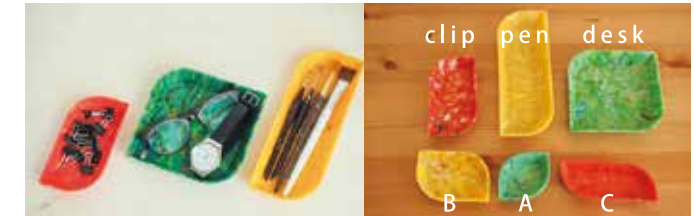
\$ 19.00 (USD)
L99 W72 H17.5

◆desk tray

\$ 45.00 (USD)
L135 W135 H20

◆leaf mini-C

\$ 19.00 (USD)
L132 W54 H17.5



Plantpot

◆deco

\$ 45.00 (USD)
83Φ×H80

◆boco

\$ 45.00 (USD)
83Φ×H80



Marine life charm

◆Fish charm L

\$ 15.00 (USD)
L170 W30 H3

※The basic version is without printing.

◆Fish charm S

\$ 10.00 (USD)
L60 W20 H3

◆Dolphin charm

\$ 19.00 (USD)
L90 W45 H3

◆Penguin charm

\$ 19.00 (USD)
L85 W60 H3

◆Turtle charm

\$ 19.00 (USD)
L80 W65 H3



※The basic version is without printing.





Bath Toiletries

- ◆ **Soapdish**
\$ 23.00 (USD)
L114.5 W94.7 H14.75
- ◆ **Toothbrush holder**
\$ 16.00 (USD)
L47.6 W50.05 H31.5
☆ 2022/8 new!



Geometric keycharm

- ◆ **Circle charm**
\$ 15.00 (USD)
L50 W50 H4
- ◆ **Triangle charm**
\$ 15.00 (USD)
L50 W56 H4
- ◆ **Square charm**
\$ 15.00 (USD)
L47 W47 H4
- ◆ **Oblong charm**
\$ 15.00 (USD)
L20 W133 H5
- ◆ **Fillet charm**
\$ 15.00 (USD)
L20 W133 H5



- living room**
- ◆ **picture frame**
\$ 45.00 (USD)
 - ◆ **pen holder**
\$ 50.00 (USD)



- New product**
- ◆ **clock**
\$ 250.00 (USD)
☆ 2023/1 new!
 - ◆ **base**
\$ 40.00 (USD)
☆ 2023/1 new!



Background of the Brand

What is "buøy"?

"buøy" is a product made from almost 100% marine plastic waste.

Using a unique molding method developed by Technolabo Corporation, each "buøy" has a different color and pattern while preserving the original color of the waste.

The weight of each "buøy" equals to the weight of the trash that was floating in the ocean. Each pattern is made up of the colors of the plastic waste we have thrown away. "buøy" continues to be made with the goal of "using discarded plastic to make products that will not be thrown away."

Currently, "buøy" is manufactured and sold in the following lineup (as of December 1, 2022).



buøy has a pattern drawn by the record of the garbage collected by chance at that time

The amount and color of garbage changes depending on the location of the beach and the season of the cleanup. Some beaches have foreign garbage with huge size, while others are full of finely crushed micro-plastics.

The "buøy" is made only from the marine plastic trash that we pick up, and we do not add any color nor materials it.

The pattern is unique, created by chance. We make "buøy" by crushing flakes of various colors and materials, but we can't imagine the pattern of the product until we create them. Picking up dirty marine debris can be a bit depressing. But who knows, we may find some unusual colored plastic garbage today. That makes us a little excited.

Now we collect garbage of various colors, but in a few decades, there may be no more garbage to collect.

Then, we may not be able to make beautiful "buøy" anymore.

That must be a wonderful future. In order to get closer to such a future, we would like to record the current state of the ocean through our "buøy" products.



A brand that exists to disappear near future

A lot of effort has gone into making this product. This is because we have been developing this product with the aim of creating a product that moves people's hearts.

We are a small force. And with our power alone, it is difficult for us to reduce the amount of plastic waste in the oceans.

However, we believe that if more people become aware of the current state of the oceans, the more people will work on marine waste issues. Our act for marine waste makes the problem to be closer to a solution.

The ocean on SNS looks beautiful, but marine debris is hidden outside that picture.

I hope that many people will pick up "buøy" and feel more familiar with the issue of marine debris.

Our brand exists for the day when plastic disappears from the ocean. And that day, "buøy" can no longer be produced.



How to make "buøy"

Most plastics, like wax, melt when warmed and harden when cooled. (*On the other hand, rubber and some plastics harden once they are warmed up and never take shape again. These are called thermoset plastics.

Most of these plastic products are manufactured by a method called "Injection Molding". First, plastic particles are melted in a device called an "injection molding machine". The melted material is then ejected through a narrow hole at the end of the machine and poured into a cold mold to create the shape of the product. There are other plastic manufacturing methods called "blow molding," "extrusion molding," and "calendar molding," but they all have the same structure of melting plastic and discharging it through a narrow hole at the tip.

These methods of plastic production have not been able to reuse marine plastic waste. Because marine plastic waste contains a mixture of different types of plastics, and each of which melts at a different temperature. Therefore marine plastic waste always have unmelted piece, which clogs the holes at the end of the manufacturing equipment. (Sometimes marine plastic litter contains barnacles and other shellfish, which means that some materials will never melt.)

So "buøy" transfer a manufacturing method called "Compression", which melts only half of the marine plastic waste and integrates it under pressure. It sounds simple enough. No company does this with thermoplastics, and it is a very unique challenge. It is a very rare manufacturing method (patent pending) that requires unique equipment as well as difficult conditions to set up because no one has worked on it before.

Thanks to this manufacturing method, buøy is able to create its own unique patterns with high quality. As the various plastics with different melting points are mixed together, their different flow patterns are created. In addition, the crushed materials do not mix completely, but retain their original colors to create a mosaic pattern.



"buøy"'s approach to quality

Marine plastic waste is a mixture of many different types. The mixture of many different materials means that, unlike a single new material of stable quality, the conditions under which each piece is made change, resulting in slightly different roughness for each piece. Since many plastic products around us today are all made with the same and very high quality, some people may feel dissatisfied if they look at them from the same perspective as these mass-produced products.

We believe that these fluctuations in quality are the "taste" of the product, based on the above background. Each product is unique because it is made from different materials and under different conditions. We believe that the differences in the texture of each product are its "flavor." We also feel that if we were to complete a product of truly uniform quality, it would be in danger of becoming the same as the mass-produced products that exist today.



The safeness of "buøy" made from marine debris

The product buøy is made from marine plastic waste. Plastic is made from oil, which is hydrophobic and therefore repels water. Marine plastics are compatible with lyophobic chemicals that drift insoluble in seawater, and they absorb each other. Marine plastic waste contains more chemicals than land-based plastic waste. For this reason, "buøy" is first molded with an integrated 0.2mm hygienic coating layer on all surfaces to prevent exposure to marine plastic debris.

However, there are many things we don't know about marine debris, so we would like to collect evaluation data on the elution of chemical substances from "buøy" products over a long period of time in the future.

With this in mind, we are working to avoid products that can be eaten, such as tableware.

【frequently asked questions 】

◆Can I use it as tableware?

We do not recommend using it as tableware, since the product is made from marine plastic waste.

It is molded with a hygienic film coating on the surface to make it safe for human touch. However, when used as tableware, there is a risk of scratching the film-coated part with a knife or fork.

In addition, dishware is often used in the dishwasher, but since marine debris is not sorted, there is no guarantee that it is made of resin that can withstand the heat of the dishwasher.

At the end, if you use this product as tableware, some guest may consider marine plastics as "garbage", and they may have an aversion to placing food on such garbage.

◆What is the temperature resistance?

Because marine plastic waste drifts ashore without being sorted, it is a mixture of both high and low heat resistant materials, the heat resistance of each materials varies.

However, in the manufacturing process, the materials are crushed and then dried at 80 degrees Celsius before processing. Since the material does not melt at this temperature, we believe that it can withstand up to 80 degrees Celsius.

◆Can I recycle?

Of course you can recycle.

We also recycle defective products and use them again in the manufacturing process. On the other hand, buoy's goal is to "use discarded plastic to make products that cannot be thrown away", so recycling and discarding is somewhat contrary to our original purpose.

If you are planning to throw it away, please send it back to us and we will recycle it as a material, but in principle we would like you to continue using it without recycling it.

◆Isn't biodegradable plastic better for the environment?

This is a difficult question, but I personally have a skeptical point of view about biodegradable plastics.

Most of the biodegradable plastics start to decompose at temperatures above 30-40 degrees Celsius, while there are only a few areas where the sea surface temperature rises to such a high temperature. For this reason, many cases of marine plastic litter have been reported in which even biodegradable plastics are not decomposed.

(By the way, some biodegradable plastics are claimed to break down in the ocean, but the price is so high that it is considered quite difficult to replace normal plastics.)

More than that, biodegradable plastics have not yet been evaluated for their environmental impact after degradation.

Many biodegradable plastics contains what are called environmental hormones, and turn into it after they break down . At present, there is still little discussion about the negative effects of releasing large amounts of environmental hormones into the ocean.

Under these circumstances, we believe that the easy introduction of biodegradable plastics is too risky for the environment.

Terms of sale for buoy buyers Ver5.1

As of September 1,2023

【Basic terms and conditions for wholesale transactions】

The minimum order quantity for wholesale is \$1,000 or more, for total purchases. The partition price(Invoice price) for the wholesale is 50% of the standard selling price. There is a possibility of further discounts for organizations that provide Buoy materials. Please consult with us.

In the case of wholesale sales according to the above conditions, Techno-labo will bear the shipping cost for Japan domestic delivery.

Remarks:

As our environmentally friendly act, we will use a minimum packaging for delivery. We will not dispatch any personnel for sales. (However we may voluntarily dispatch our own staff, only if the event is to be held in Japan and the content of the event meets our requirements.)

【Payment conditions 】

Payment conditions are as follows.

Half of the payment is due at the time of start, and the balance is due within one month after delivery.

We do not accept bills of exchange.

【Volume discounts】

Volume discounts are available for items with a transaction volume of more than 50 per item. The amount and delivery date will be discussed on a case-by-case basis.

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