

# Plastic-Free Shrink Sleeves



Natural  
Materials



Heat  
Free



Apply by  
Hand

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# WHAT ARE SHRINK SLEEVES AND WHY SHOULD YOU USE THEM?

Tamper Evident plastic free shrink sleeves, also known as full body sleeves, tamper bands or shrink wrap bands, act as a secondary seal around your bottle or container to prevent contamination and tampering. They provide visual tamper evidence to the end consumer, reducing shelf reject rates & enhancing your brand integrity.

Shrink sleeves are flexible, meaning they can shrink onto even the most uniquely shaped containers allowing you to stand out from the competition.



**“Our unique, plastic-free shrink sleeves are made from sustainable wood pulp.**

**They are biodegradable and home compostable, making them an eco-friendly packaging solution.”**

## THE BENEFITS...

- ✓ Plastic-free, biodegradable & home compostable
- ✓ Heat-free - the sleeves self-shrink at room temperature within an hour, perfect for heat sensitive contents or to reduce your energy consumption
- ✓ Hand applied - no investment needed for bulky, heavy, or expensive equipment, just pop them over your container and leave to self-shrink
- ✓ Perfect solution for awkward shaped containers
- ✓ Low minimum order quantities
- ✓ Highlight tampering by providing visual tamper evidence
- ✓ Complimentary technical advice & review of your container
- ✓ Free samples for trial



## KEY INFORMATION

- ✓ Supplied in pots, submerged in a preservative solution
- ✓ Standard & bespoke colours available
- ✓ Ability to print your brand logo or message
- ✓ Wide variety of sizes to suit most types of bottles & containers
- ✓ Includes vertical perforation as standard for easy opening after consumer purchase.

## Plastic-Free Shrink Sleeves

# HOW TO MEASURE



### STRAIGHT SIDED CONTAINERS

Measure the widest point over which the seal must pass, then add 1mm. For example, if the diameter of the cap is 50mm you would choose a seal of 51mm diameter.

Choose a length to suit your container by measuring from the top of the cap of a sealed container to approximately where you would like the sleeve to finish. Add 2 - 3mm for overlap. Please note the sleeves do have a 10% shrinkage on their length when fully dry. For example if you select a 30mm cut length it can shrink by up to 3mm so will finish between 27mm - 30mm on your container.

### CONICAL CONTAINERS AND MORE COMPLEX SHAPES

For uniquely shaped containers we recommend sending us a detailed bottle drawing and details of the cap you are using. We can then measure up for you and recommend the best size. In some cases we may request a physical sample for us to dress for you so that you can check the fit before purchasing.

### SHRINKAGE ON DRYING

The Tamper Evident plastic-free shrink sleeves are self-shrinking at ambient temperatures. In order to achieve this, they need to be supplied wet, then applied and allowed to dry. To keep the sleeves in their wet state they are packed in a mild solution which also preserves the natural fibres of the material.

Upon receiving your sleeves simply open the container, remove a sleeve from the solution and apply to your container. When you have placed a sleeve onto your product it starts to dry naturally and within minutes you will see it has begun to shrink down against your product to form a tight seal.

The plastic-free shrink sleeves can shrink by up to 40% of their overall size and the drying process is complete within one hour – this varies dependent on the temperature and humidity of the room they are in.

To speed up the drying process you can apply heat using a heat gun or tunnel, depending on your manufacturing set up, which can decrease the drying time to a few minutes.

Plastic-Free Shrink Sleeves

# HOW TO APPLY

1



**STEP 1**

Remove a sleeve from it's solution.

2



**STEP 2**

Apply by hand to your container, ensuring you leave an overlap at the top to allow the sleeve to grip the container. We recommend a 2-3mm overlap

3



**STEP 3**

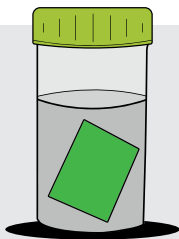
Put your container to one side and allow to dry and self-shrink at ambient room temperature within 1 hour. No heat required.

4



**STEP 4**

Once the sleeves have fully dried your product is now sealed and ready to go!



**STORING UNUSED SLEEVES**

Ensure any unused sleeves are kept fully submerged in their original solution with the container lid firmly shut. For more information on storing the sleeves please see our general specification.

## Plastic-Free Shrink Sleeves

# PRODUCT DATA SHEET

Plastic-free shrink sleeves act as a secondary seal around your bottle or container to highlight contamination and tampering.

They provide visual tamper evidence to the end consumer, reducing shelf reject rates & enhancing your brand integrity.

## MATERIAL INFORMATION

The sleeves are made from Viscose, derived from Eucalyptus trees in PEFC certified forests. This raw material is converted into regenerated cellulose during our process, extruded into a tube and then cut to make sleeves.

### PRESERVATION:

The sleeves are supplied in a non-hazardous preservative solution meaning they are in a wet state before use. The preservative solution is a Polyethylene Glycol/Chlorocresol (PCMC) based solution. Cellulose is a natural product, this preservative solution prevents potential bacteria from harming the sleeves, keeps the sleeves supple until use and stops the sleeves from self-shrinking until use.

### COMPOSITION OF THE PRESERVATIVE SOLUTION:

- ✓ Polyethylene Glycol- 19-21%
- ✓ Chlorocresol- 0.08-0.12%
- ✓ The rest is made up of water.

As the levels of Chlorocresol are so low, the solution and sleeves are safe to be handled without gloves or protective equipment, however gloves may be used if preferred. Excess solution can be disposed of in your usual drainage system.

## APPLICATION & SHRINKAGE

The sleeves are hand applied and self-shrink within an hour at ambient temperatures. Whilst the sleeves do not require heat to shrink, heat can be used to accelerate the drying time, as long as the application of the heat is controlled so it is applied evenly and consistently.

### GUIDANCE ON USING A HEAT SOURCE ON THE SLEEVES:

1. Using a heat gun at 80°C and maximum air flow the drying time can be reduced to 150 seconds.
2. Using a heat tunnel at maximum air flow and 100°C the drying time can be reduced to approximately 160 seconds depending on the cycle time of the conveyor.



## STORAGE & HANDLING

**THE SLEEVES ARE GUARANTEED FOR 12 MONTHS PROVIDED THE FOLLOWING CONDITIONS ARE MET:**

- The sleeves are stored in unopened pots as supplied.
- The sleeves must be stored within the preservative solution they are supplied in.
- Pots need to be turned over and agitated monthly to ensure a homogeneous solution throughout.
- All pots must be stored between 0 and 35 degrees Celsius. Do not allow the sleeves to freeze as this can weaken them.
- Always ensure the sleeves are stored in an area away from direct sunlight and heat-sources.

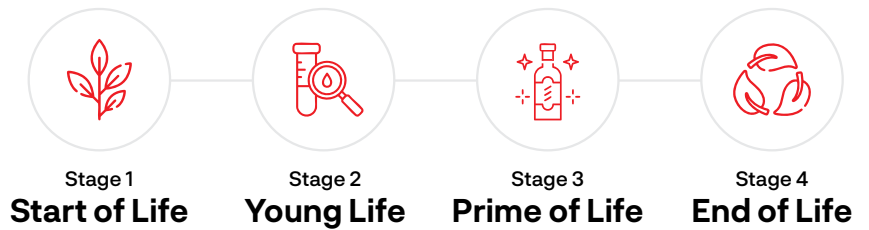
**ONCE THE POTS HAVE BEEN OPENED:**

- After opening the guarantee no longer applies however, by following the below steps your sleeves should be usable for several months.
- Ensure any unused sleeves are kept fully submerged in the solution and packaging they are provided in with the lid closed at all times.
- The pots you receive will have plenty of solution in them however, should you require more solution you can purchase it directly from Tamper Evident.
- Do not dilute the solution the sleeves are supplied in, replace it with water or rinse the bands before use. This will weaken the sleeves and cause them to become brittle.
- Continue to agitate the pots every month
- Continue to store away from direct sunlight and heat sources
- Continue to store between 0-35 degrees Celsius.



# The Lifecycles of Plastic-Free Shrink Sleeves

The lifecycle of your plastic-free shrink sleeves can be categorised into **4 key life stages...**





## Stage 1 **Start of Life**

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### **Plastic Free Shrink Sleeves are born from Eucalyptus trees.**

Eucalyptus trees have a high cellulose content, so they are the perfect choice to produce the material needed to make your great biodegradable sleeves! The wood from the Eucalyptus trees is ground down into cellulose sheets.

These cellulose sheets get broken down into a chemical called Viscose, ready to be turned into tamper evident plastic-free shrink sleeves.



## Stage 2 **Young Life**

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### **From Colour to Container – How your sleeves are made**

Our tamper evident sleeves go through a carefully controlled manufacturing process to ensure quality, safety, and consistency at every stage. Here's how we transform raw materials into the finished product you receive.

Pigment is added to viscose to create the desired colour, such as white, black, red, blue, or yellow. The coloured material is then extruded into tubes, treated in acid to form regenerated cellulose, and thoroughly washed. It is wound onto reels, then cut and perforated into sleeves—either plain or printed—based on our specifications.

The cut bands are sealed in bags with a non-toxic preservative solution and packed into pots to prevent contamination.





### Stage 3

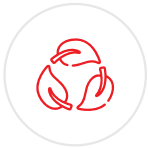
## Prime of Life

### Applying your Tamper Evident sleeves is quick and easy.

Follow these simple steps to apply your sleeves and achieve a secure, professional finish – no heat required.

- Your sleeves are delivered to you in pots.
- Simply remove the sleeves you need and hand apply to your container, ensuring a 2mm - 3mm overlap is at the top.
- The sleeves shrink within an hour at room temperature. Simply leave them to dry on your container where they will form a tight seal.
- Re-seal any unused sleeves in their original solution following our storage guidelines.
- Once the sleeves are dry your product is Tamper Evident, and you're ready to go!





## Stage 4 End of Life

**Once you remove the sleeves we recommend they be placed in your food waste bin, or home compost pile.**

Our tests show that the sleeves will biodegrade in soil within 4 months, returning to the earth from which they came, giving them the ability to repeat the process again and again...



## ABOUT TAMPER EVIDENT

Since 2005 Tamper Evident has grown and provides quality products, support and advice on how to stop unauthorised access to client's property and data.

We're specialists. We only deal with tamper evident products.

At Tamper Evident we care about the environment. We endeavour to minimise our carbon footprint by importing goods via sea shipments, working remotely, use cloud-based applications to reduce paper wastage, less travel and introducing a biodegradable additive into our plastic seals range.

Tamper Evident works alongside many industries to identify how tampering occurs, educate clients on how to eliminate tampering and prevent unauthorised access and theft. We're trusted by businesses throughout Australia to provide the right tamper evident security solutions. Join the list of businesses today and see how we can help you.



### WE'RE SPECIALISTS

We specialise only in Tamper Evident products and provide expert guidance, support and advice. Get in touch.



### WE'RE TRUSTED

With over 200 years of combined partner experience, we're trusted by Australian businesses. Join the list.



### WE DELIVER

We supply proven and high quality products to meet and exceed all of our customers expectations - every time!



## WHAT SOME OF OUR CUSTOMERS HAVE TO SAY...

### THE KNIFE SHOP DISTILLERY

"The Tamper Evident sleeves not only look fantastic, but they apply cleanly, perform reliably, and align much better with our sustainability goals as a distillery. It's been a game changer for us."

### INTRESO

"We are extremely pleased to have found Tamper Evident and their plastic-free shrink sleeves. Their solution addressed exactly the challenge we were trying to solve while also aligning with our sustainability goals. We have already incorporated the product into our processes and have been impressed with how seamlessly it integrated into our operations."

### THE GOWER GIN COMPANY

"Plastic-free shrink sleeves are an excellent product and a key part of our sustainability journey; we love that they biodegrade in food bins too!"

### TITAN HOARDING SYSTEMS

"We couldn't be happier with the quality of the product and the service we receive. So much so that we recommended Tamper Evident to all our distributors who now use their product!"



## HOW TO ORDER

To place an order with Tamper Evident simply choose the option that suits you best.

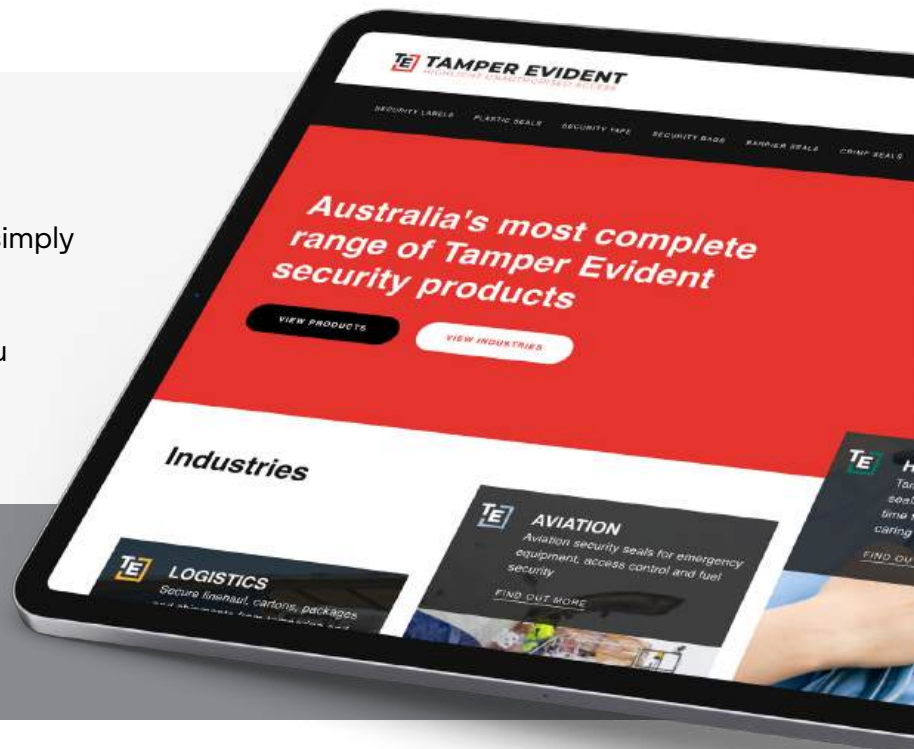
**Email** orders@tamper evident.com.au

**Tel** 1300 726 711

**Online** www.tamper evident.com.au

## Request Samples

[Click Here →](#)



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