



# KeepSafe Breathable Evidence Bags

Ampac has developed a new Evidence Bag, which combines special breathable characteristics with tamper-evident features to provide an all-in-one security packaging solution for the collection, transportation and storage of criminal and forensic evidence.

The special breathable characteristics facilitate the drying of wet evidence that may be placed inside the bag, and guard against the loss of crucial specimens due to the deterioration of damp or wet samples.

This product has a tamper-evident closure so that evidence in the bags cannot be interfered with, and so that the integrity and the chain of custody of evidence can be protected.

One side of the bag is made from the breathable material, which facilitates the drying of wet evidence. The other side is made from clear polythene so that contents can be visually examined without opening the bag.

KeepSafe Breathable Evidence Bags offer comparable drying properties and superior tamper-evident security to paper sacks.

KeepSafe Breathable Evidence bags are available in 3 standard designs on a delivery of just a few days. These bags incorporate the standard UK chain of evidence form.

Bespoke printed bags are available in these standard sizes. Print may be up to 6 colours. Lead-time is approximately 10 weeks.



# KeepSafe Breathable Evidence Bags

## Features

Tamper-evident to all known methods of attack including

- Extreme temperatures
- Solvents
- Pre-tampering

Co-extruded plastic film

- Durable and strong
- Puncture and tear resistant
- Water resistant

Specialist breathable film

- Allows air to flow
- Water resistant, durable and strong

Unique number printed on each bag

“Easy-fill” mouth configuration

Coloured release liner

Security tape falls naturally onto adhesive

## Benefits

- Once the bag is sealed, any attempts to pilfer with contents will be immediately evident.

- KeepSafe® Gold offers the highest level of tamper-evident packaging available

- Contents remain secure and protected inside the bag

- Wet or damp contents will dry out rather than deteriorate

- Contents remain secure and protected

- Each package can be tracked within the system

- Designed to make packaging as quick and simple as possible

- Coloured tape quickly identifies unsealed bags

- Bags are quick and easy to seal

**KeepSafe® Breathable Evidence Bags offer the highest level of protection so your contents remain secure, intact and protected**



# KeepSafe Breathable Evidence Bags

## Tamper-Evident Features

The KeepSafe Breathable Evidence bag security seal provides clear and permanent evidence of attempts to tamper with it in the following ways:

<b>Method:</b>	<b>Visible Evidence of Tampering:</b>
Peeling at room temperature	White crosses appear in purple strip on security tape. Distortion of tape and polythene material.
Freezing adhesive & peeling	White crosses appear in purple strip on security tape.
Softening adhesive using solvent & peeling	Black Ampac logo is distorted or removed. Purple ink runs and security tape becomes clear
Removal of tape	Security tape is heat-sealed to the bag & cannot be removed or replaced without cutting being evident
Cutting	Cutting on tape fails to give access to the bag

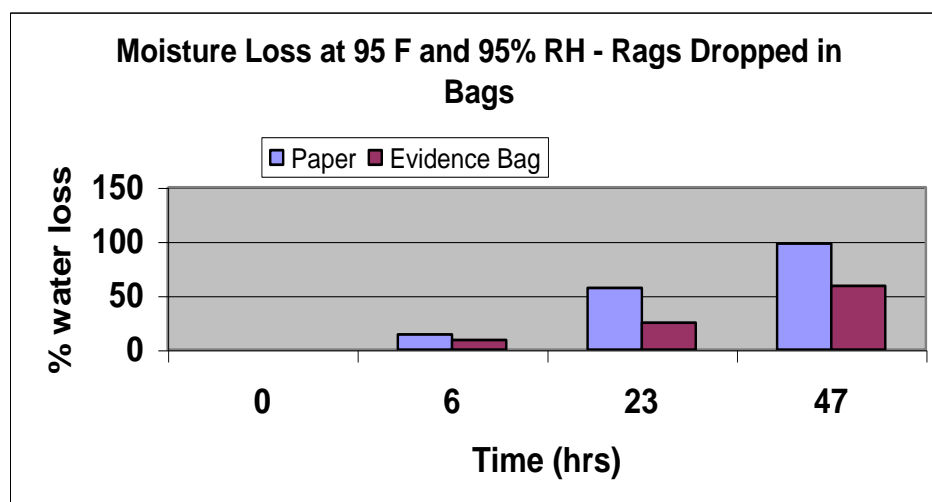
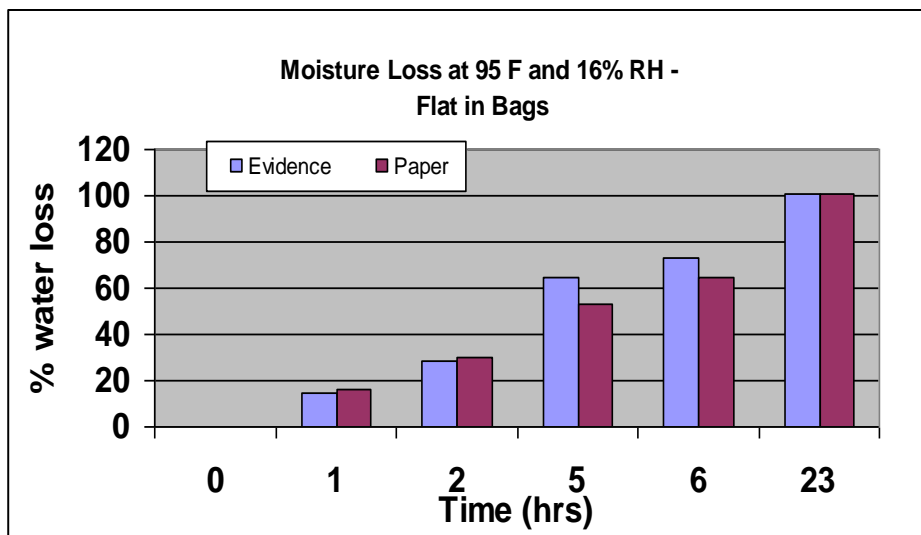


# KeepSafe Breathable Evidence Bags

The drying properties of the KeepSafe Evidence Bag have been tested in Ampac's laboratories. The tests were carried out at 95°F at 95% relative humidity and at 16% relative humidity.

The tests were carried out on bags where the contents had been placed carefully and positioned flat inside the bag and where the contents had been dropped into the bag without any attempt made to increase the drying surface of the wet item by flattening it out.

Both tests showed excellent drying properties, the best results coming when evidence is placed flat in the bag and at low relative humidity (see charts below).





# KeepSafe Breathable Evidence Bags

The breathable material is a spun bonded polyethylene membrane that allows air to pass through. The molecular size of the “holes” in the membrane is variable. For gas and water permeability, the material behaves as if the maximum hole-size is typically 18 to 20 microns. However the manufacturing process ensures that the holes are not simple tubes through the material so it provides better resistance to transmission of solid particles than indicated by this dimension. The breathable material is similar to polyethylene in that it is not wetted by water. It can support a column of water over 1 metre in height before liquid is forced through the pores. Therefore, it will not function as a semi-permeable membrane to allow osmosis to occur in any expected circumstances of use.

Air permeability is >600mL/min Bendtsen (ISO 5636-3) and 22 sec/100cc Gurley (TAPPI T460)

Moisture vapour permeability is >1600 g/m<sup>2</sup>/24 hours (TAPPI T523) at 23°C and 85% RH.

The bag will not be affected by relative humidities up to 100%. The breathable layer allows the contents to come to equilibrium with outside conditions. The drying rate is dependant on the ratio between the relative humidities inside and outside the bag.

In order to ensure the shelf of KeepSafe Breathable Evidence bags, recommended storage conditions are 18 - 22°C and 35 - 55% Relative humidity. The envelopes must not be exposed to temperatures above 35°C for prolonged periods before use. Under the conditions specified above the envelopes will remain suitable for use for a period of up to 3 years.

During use, KeepSafe Security Bags may be exposed to temperatures from –30°C to +55°C. At the extremes of this temperature range, bags should be handled according to strict procedures. Bags exposed to temperatures below –20°C should be handled carefully: the security tape should not be touched directly or knocked and bags should be allowed to rest for 8-10 minutes before further handling when returned from freezing conditions to room temperature.

The KeepSafe Breathable Evidence bag is effective in pressure ranging from 0 to 1 bar.