



The alternative solution for packaging powders.

Polythene film is one of the most lightweight and durable packaging mediums available. As such it provides a significant environmental advantage by protecting and preserving goods in a manner that employs minimal resources whilst reducing the incidence of spoilage and the associated losses incurred.

High strength, highly versatile and 100% recyclable

Ventisack offers the ultimate solution for the handling, storage and display of powdered goods, providing a superior high strength and water resistant pack with strong environmental credentials, in a visually appealing design.

As well as being 100% recyclable and easier to recycle than paper, Ventisack can be downgaged where the application permits. Downgaged films offer all the performance of conventional polythene but from a thinner gauge. Such thinner products offer the same strength as their thicker predecessors but use less material to produce each sack.

A new era in powdered goods packaging

Packing powdered goods brings unique challenges. In addition to the requirements to keep powders dry, protected from water ingress and easy to handle, there is often a need to optimise presentation in competitive retail environments. Ventisack was created to address both these challenges.

Protecting profits.

Sometimes powdered products need to be packaged in a way that's waterproof without being air tight. It's for precisely these applications that Ventisack was created. Ideal for moisture sensitive goods which are stored outside (like cement) as well as for any powdered product packed on high speed packing lines, Ventisack has an innovative back seam that allows air to flow freely through it whilst keeping water

ingression at bay. It's this technically advanced seam combined with the high strength of the polythene used that allows it to make a major impact in terms of reducing product spoilage and associated costs.

Making an impression

If you want your packaged product to impress, Ventisack is the perfect solution. For maximum visual impact, it can be printed in four colours and with 360° coverage around the whole film tube. Unlike conventional sacks, there is no wasted white space along the sidewalls where instructions or brands could be reinforced.



- 1. A recent independent third party study has shown that plastic cement packaging is more environmentally friendly than paper packaging during the full term of its use.**
- 2. The study also highlighted that the amount of cement wastage caused is the most significant aspect determining the environmental effect of paper bags.**
- 3. The study also found that more than one tenth of paper bags are damaged after receipt by merchant but before site use.**
- 4. The same study determined that plastic bags use less energy than paper bags, and a US Environmental Protection Agency report showed that plastic bags typically use 40% less energy to produce and generate 80% less solid waste than paper.**



Anti-slip embossing



Microperforation options available



Full colour print



360° printing



Made-to-measure size options



100% recyclable



Aesthetics and versatility combined

Supplied as a gusseted tube wound onto large diameter reels for use on FFS packing lines, Ventisack can be offered made to measure in:

- Any tube width from 300 to 650mm
- Any sack length from 400 to 1200mm
- Any film thickness from 90 to 200mm

Ventisack can also be embossed to provide an anti-slip feature that enhances pallet stability as well as microperforated where required by the application.



In our laboratory tests Ventisack outperformed traditional paper sacks in terms of both tear and puncture resistance. The paper sack tested was made up of 2 layers of paper sandwiching a PE layer.

Tear Test

Using the ASTM standard test method for the propagation tear resistance of plastic film by pendulum method (ASTM D1922), a notched tear is introduced to initiate a tear. A weighted pendulum is released to continue the tear across the sample. This method measures the tear propagation force in Newtons(N). Ventisack performed

significantly stronger than the paper sack as outlined in the table below.

Puncture Test

Using the ASTM standard test method for protrusion puncture resistance of stretch wrap film (ASTM D5748), the puncture test is conducted on a tensometer. Samples are clamped in a holder and a probe with a rounded end is driven through the sample until a sudden drop in force records the point at which the probe penetrates the sample. Puncture energy is measured in joules (J) and this is the total energy absorbed by the sample during the test.

Property	Test Method	Ventisack	Paper Sack
Substance		152gsm	154gsm
Elmendorf Tear Strength MD	ASTM D1922	13.3N	2.5N
Elmendorf Tear Strength TD		35.1N	3.0N
Puncture Energy	ASTM D5748	5.2J	0.6J



Environmentally friendly alternative



Weatherproof



Less waste



High strength



Reduces costly losses