BATES CARGO-PAK®
A SIGNODE BRAND

PRODUCTS
SERVICES
INTEGRATION
AUTOMATION

pack bundle unitize warehouse transport

Bates Flex Plastic

Plastic dunnage bag

Prevent cargo damage

With 40 years experience we know how to protect your goods in trucks, containers, ships and rail wagons.

Reliable performance

Made from three layers of PE quality film which is coextruded, ensuring ultimate airtight seal. Made in Denmark.

Time & cost saving

Quick and safe installation. Clean and cost effective. Fast loading for shipper. Fast unloading for receiver.

Fast & simple inflation

Operator friendly inflation using compressed air. Unique valve system. Seals automatically after inflation.

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Flex Plastic is used to secure cargo which is to be transported by container or road. Flex Plastic is equipped with the patented Flex valve which allows for very quick inflation. The valve can be turned 360°, which makes it possible to inflate the airbag from all angles. The valve closes automatically after inflation. Flex Plastic is available in eight sizes, comes in handy box quantities and are easy to store.

Benefits and features

- **Maximizes load security**
  Filling the void by inflating the airbag, secures the goods during transport all the way from the sender to the receiver. Clean, simple and easy to use.
- **Reduces loading & unloading time**
  Placing the airbags is a very fast and time saving way of securing your goods before departure. And when unloading the goods the airbags are simply deflated by puncturing the airbag.
- **Environmentally friendly materials**
  Entirely made from environmentally friendly materials. High wet strength due to the choice of materials and composition. Can withstand up to 90% relative humidity (RH) at 60°C.

Flex Plastic is especially suitable to protect goods inside boxes and crates.

Flex Plastic inflated and placed in container.

Inflation Time	
60x110	11 sec
100x220	46 sec

- **Inflation**
  We recommend that the Bates Flex Inflator is used to inflate the airbags. To inflate, the nozzle should be pushed all the way into the valve. The airbag must not come into contact with sharp or pointed objects and should be kept min. 5cm clear of the floor to avoid contact with water or other liquids. In the table above filling time is based on a 3/4" hose and a pressure of 4 bar (56 psi).

- **Deflation**
  The airbag is deflated by puncturing it, then it can be easily removed from the load.

Flex Plastic valve

Inflation with Flex Inflator

Packaging Specifications								
Size in cm	**60x110**	**85x75**	**85x120**	**85x180**	**100x180**	**100x210**	**115x180**	**115x210**
Item Number	602110	604075	604120	604180	605180	605210	606180	606210
Pcs per Carton	90	80	50	45	40	35	45	40
Pcs per Pallet	720	640	400	360	320	280	360	320
Gross Weight per Carton	25.6	23.2	21.6	28.1	29.2	29.7	37.4	38.6
Gross Weight per Pallet	216	189	185	237	246	251	320	329

NB: Other sizes are available on request. Smallest size is 40x45 cm. The plastic airbags can be supplied with other Bates Cargo-Pak valves if requested.

BATES FLEX PLASTIC
Plastic dunnage bag

Working Pressure & Strength

Technical Specifications

Size in cm		60x110	85x75	85x120	85x180	100x180	100x210	115x180	115x210
Load in Tons in a Gap of:	10cm	1.9	1.8	3.4	5.1	6.6	7.2	8.0	9.2
	15cm	1.2	1.1	2.2	3.4	4.5	5.0	5.4	6.4
	20cm	0.7	0.7	1.4	2.3	3.1	3.3	3.7	4.4
	25cm	0.4	0.4	0.9	1.6	2.2	2.5	2.9	3.4
	30cm		0.3	0.7	1.2	1.7	2.0	2.3	2.7
	35cm		0.2	0.4	0.9	1.3	1.5	1.8	2.2
	40cm					1.0	1.2	1.5	1.8
	45cm					0.7	0.9	1.1	1.4
Max gap in cm		37	37	37	37	45	45	52	52

*All specifications are provided in metric tons

The maximum load depends on the size of the airbag and the gap between the cargo. The table above shows what load the various sizes of airbags can withstand in a gap from 10 to 45cm. For example, if there is a gap of 10cm and an airbag of the size 115 x 210cm is used, the airbag can withstand a load of 9.2 metric tons.

Working pressure

The maximum recommended working pressure is 0,1 bar (1,4 psi). Compared with the high bursting pressure this gives a security margin of factor 3-8 depending on the gap. If changes in temperature, you should take into consideration the following:

- If the air in the airbag becomes significantly colder after inflation, the pressure in the airbag drops. It is possible to compensate for this during inflation by increasing the working pressure slightly.
- If the air in the airbag becomes significantly warmer after inflation, the pressure in the airbag increases. It is possible to compensate for this during inflation by reducing the working pressure slightly. During inflation consideration should of course be given to whether the cargo and packaging can withstand the selected working pressure.

Certified Manufacturing Plant

ISO 9001 Quality Management System

QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001

AR43

Produced using sustainable energy

100 % WINDenergy Our environmental certificate from scanenergi

Distributor:

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