



# INDUSTRIAL AND PACKAGING BAGS

PLASTICKAR, JULY 2021



## INDUSTRIAL AND PACKAGING BAGS

PE bags are used in various industries for packaging purposes.

Some properties of PE films including low volume, transparency, flexibility, the ability to produce in different size, thickness and color, the ability to be printed as well as suitable sewing, which have increased the consumption of these products day by day for packaging purposes in various industries.

Utilizing multi-layer (co-extrusion) film production technology, flexographic printing (up to 6 colors), as well as sewing machines of various sizes, PlasticKar is capable of producing various types of sealed industrial bags such as:

- Industrial bags for packaging liquids and powders: liner of jumbo bag, big bags, pallet bags and polybags;
- Anti-static bags for packaging powders and medicine;
- Printed rolls and bags for shopping and advertising purposes.

It is worth mentioning that we can produce industrial bags based on the customers' requirement to meet the need of diverse industries.

### PlasticKar' s industrial bags include (but not limited to):

- Sewing Sealed industrial bags for packaging liquids, powders and medicine.
- Pallet bag (hood) for covering pallets, household appliances, minerals, etc.
- Bitumen bag (polybag) with specific melting point for packaging liquid bitumen.
- Low melting point bag for consumption in rubber industries.



## LIQUID AND POWDER PACKING BAGS

Utilizing our three layer (co-extrusion) film production technology, as well as flexographic printing up to 6 colors and sealed sewing, we produce a wide range of anti-static industrial bags for packing of liquids and powders.

These bags are applied in several industries such as food, detergents, cement and so on.



<b>Product Name</b>	Liquid and Powder Packing Bags
<b>Other Names</b>	Industrial bags, Sealed bags, three layered bags, Anti-static bags, etc.
<b>Application</b>	Packaging of: <ul style="list-style-type: none"> <li>▪ Liquids</li> <li>▪ Powders</li> <li>▪ Food</li> <li>▪ Detergents</li> <li>▪ Powdered building material</li> </ul>
<b>Features</b>	<ul style="list-style-type: none"> <li>▪ Properly sealed to prevent loss of containment</li> <li>▪ Long-term cargo protection</li> <li>▪ Easy transportation</li> <li>▪ Possibility to print logos on the product</li> <li>▪ Recyclable</li> </ul>
<b>Thickness</b>	Typically 80 to 250 microns (based on the customer's request)
<b>Width</b>	Typically 30 to 120 cm (based on the customer's request)
<b>Length</b>	Typically 40 to 100 cm (based on the customer's request)
<b>Color</b>	Based on the customer's request
<b>Print</b>	Based on the customer's request up to 6 colors
<b>Packaging</b>	Packed in 20 / 25 kg PE bags.



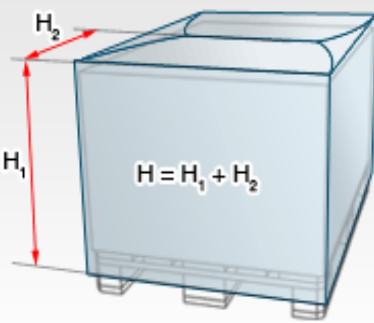


## PALLET BAGS

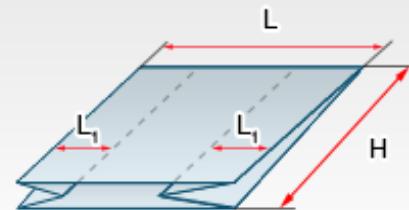
Utilizing our multi-layer (co-extrusion) film production technology, as well as printing and sewing machines, we produce a variety of pallet hoods for covering a wide range of pallets and large home appliances.

If required by the customer, the bag resistance to UV radiation could be increased by adding some specific additives.

It is worth mentioning that the pallet hoods have the ability of thermal shrinking by using industrial heat guns.



Shrink hood on palletised products



Shrink hood in pieces





Product Name	Pallet Bag
Other Names	Pallet Cover, Industrial bag
Application	<ul style="list-style-type: none"> <li>▪ Covering tiles and ceramics pallets</li> <li>▪ Covering all kinds of pallets</li> <li>▪ Covering home appliances</li> </ul>
Features	<ul style="list-style-type: none"> <li>▪ Easy and cheap packaging of pallets without the need for specific technology</li> <li>▪ Long-term cargo protection</li> <li>▪ Resistant to UV radiation</li> <li>▪ Easy transportation</li> <li>▪ Possibility to print logos on the product</li> <li>▪ Suitable sealing</li> <li>▪ Recyclable</li> </ul>
Thickness	Typically, 100 to 400 microns (based on the customer's request)
Width	Typically, 100 to 1000 CM (based on the customer's request)
Length	Typically, 120 to 150 CM (based on the customer's request)
Color	Transparent, Black, Blue (or based on the customer's request)
Print	Flexographic up to 6 colors (based on the customer's request)
Packaging	Packed in bulk.





## BITUMEN POLYBAG

Bitumen is supplied to the market in different forms. For domestic markets, bitumen tanks are usually used, while for export purposes, depending on the type of bitumen, different types of drum packaging, polybag or Bitubag are used.

Polybag or Bitubag is a new and environmentally friendly product that is used for packaging different grades of bitumen with the advantage of easy transport and handle.

To use this product, the liquid bitumen is filled at a suitable temperature (lower than the bag's melting point and higher than bitumen's softening temperature) into a polybag that is made of polyethylene, and after cooling, bitumen becomes hard and solid which is easier for shipping.

The packed bitumen is then put into special pools and heated to the melting point. Since the bags are melted along with liquid bitumen in this method, it prevents loss of bitumen, reduces costs, saves time and energy. It should be noted that adding polyethylene to bitumen will increase the softening point and reduce the permeability of bitumen.

Based on the consumer's requirement, these bags are produced in smaller sizes for packing 40 to 50 kg of bitumen or in larger sizes as jumbo bags for packing 300 kg or 1000 kg.





<b>Product Name</b>	Bitumen Polybag
<b>Other Names</b>	Polybag, Bitubag
<b>Application</b>	Packaging and shipment of bitumen
<b>Features</b>	<ul style="list-style-type: none"> <li>▪ Reducing losses due to product warming during transfer of bitumen containers</li> <li>▪ Cost savings compared to other packaging methods</li> <li>▪ Optimal use of shipping space</li> <li>▪ Reducing the cost of heating the product</li> <li>▪ Eliminating the cost of recycle and disposal of drums and other waste resulting from bitumen shipment</li> <li>▪ Using PE film as an allowed additive which enhances the quality of bitumen</li> <li>▪ Easy delivery to the final destination due to low weight and flexible packaging</li> <li>▪ Possibility of capillary distribution for building material suppliers</li> <li>▪ Possibility of packaging in different weights and sizes</li> <li>▪ Possibility of printing logos on the bag</li> <li>▪ Environmentally friendly</li> </ul>
<b>Thickness</b>	Typically, 80 to 200 microns (based on the customer's request)
<b>Size</b>	<ul style="list-style-type: none"> <li>▪ Small Size: For 40-50 KG packs.</li> <li>▪ Large Size as Liner of Jumbo bags: for 300 KG or 1000 KG Packs.</li> </ul> <p>(Based on the customer's request)</p>
<b>Melting Point</b>	<ul style="list-style-type: none"> <li>▪ 125 to 140 °C</li> </ul>
<b>Color</b>	Transparent (or based on the customer's request)
<b>Packaging</b>	<p>In bulk.</p> <p>In some cases customers buy in rolls and sewing part would be done in their production units.</p>





## LOW MELTING POINT BAG (RUBBER MANUFACTURING)

Benefiting from modern technology and the efforts of creative engineers in our R&D department, PlasticKar manufacturing group is able to produce low melting point bags which are used in the rubber industry.

The main features of this bag include: low melting point (70 to 90 degrees Celsius), high tensile strength and high strike-resistance.

At the first stage of producing rubber, raw material including curing ingredients and additives are mixed in the Banbury mixer and different types of rubber mixtures are produced. For weighing the raw material, low melting point bags are used, because in the case of non-melted bags, raw material remain in the form of impurities within the mixture which eventually reduces mechanical properties of the product.



Most producers use EVA bags (melting point 70 to 80 degrees Celsius), as they have lower melting points compared to PE bags (120 to 135 degrees Celsius).

Currently a new type of PE bag is produced that its melting point can vary from 70 to 90 degrees Celsius and they are much cheaper than the EVA bags. After adding the bags containing the additives to the mixture (while the mixture temperature is about 90 degrees Celsius), the bags will completely melt.





Product Name	Low Melting Point Bag
Other Names	Rubber industry bags, Rubber manufacturing ingredient bags
Application	<ul style="list-style-type: none"> <li>▪ Packing carbon black</li> <li>▪ Oil bags</li> <li>▪ Packing of powdered and dusty ingredients</li> <li>▪ Packing the material of the curing system</li> </ul>
Features	<ul style="list-style-type: none"> <li>▪ Reducing pollution in the production environment</li> <li>▪ Additives consumption saving</li> <li>▪ Easy transportation</li> <li>▪ Reducing production waste</li> <li>▪ Recyclable</li> </ul>
Thickness	40 to 150 microns (based on the customer's request)
Width	30 to 80 cm (based on the customer's request)
Color	Transparent (or based on the customer's request)
Packaging	Packed in 10 or 20 kg PE bags.

### Easily Digested by Rubber





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