

Barrier Packaging

Ways To Provide Barrier Properties
To a Plastic Container.

From Plastic Polymers To Coextrusion Products



The Company

- Amber Polypack and group of companies are a national manufacturer and supplier of premium, high-quality plastic products for agrochemicals, pharmaceuticals, and fast-moving consumer goods (FMCG) firms.
- We design and manufacture custom made co-extruded multilayer and monolayer industry separate standar liquid and chemical bottles, containers for agrochemicals, Caps and measuring cups, PET bottles, Printed Labels, and other high-quality packaging products. With over 10 years of experience in the packaging sector, we've given a wide range of services to happy consumers.
- Our team has been the driving force behind our success over the years, withover 25 years of expertise in the agrochemical and polymer industries. We have emphasized on quality management, operations, supply chain, along with financial health. All of these pillars have aided us in providing our consumers with the highest quality goods in a timely manner.
- We are always developing and expanding in order to produce the best and greatest items we can be proud of while maintaining our mission and ethics.



Our Mission

To embrace a proclivity for meeting our customers' needs and expectations by delivering on-time, high-quality products and services at competitive prices that provide long-term value.

Our Vision

To be our clients' first choice when looking for a world-class plastic packaging product, parts and assemblies manufacturer, as well as a provider of associated technical services.

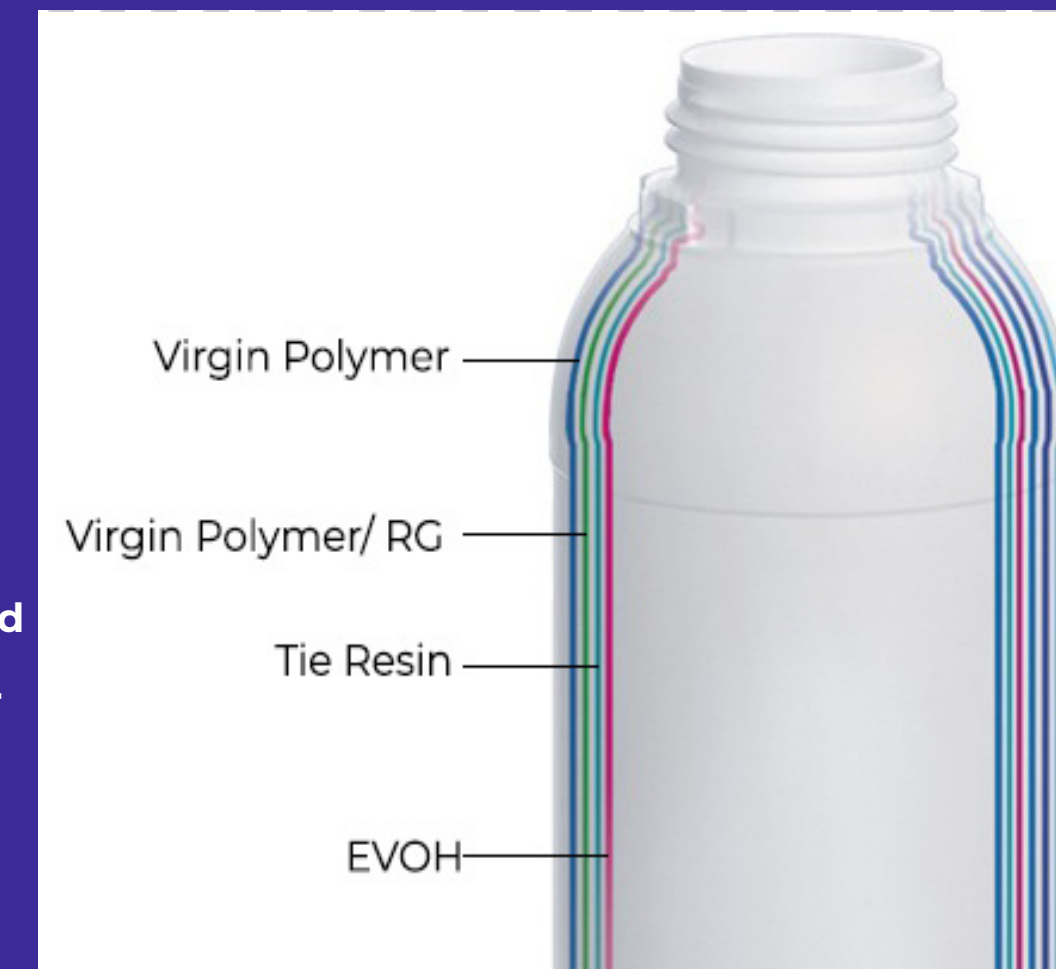
Introduction

- Plastic barrier containers are designed and manufactured precisely to preserve the product they contain while also preventing container deformation.
- The barrier is an important aspect in ensuring the best possible preservation of the packaged product, especially those that are more susceptible to changes due to their composition. Plastic containers used to encapsulate compounds with certain active formulae that might generate gases inside them, in particular.
- Many influences, such as light, humidity, oxygen, temperature, and pressure fluctuations, can modify a packaged product and, as a result, cause the plastic container to deform or degrade.
- **Some of the main properties of a barrier container:**
 - Resistance to aggressive products contained.
 - Waterproofness to solvents.
 - Resistance to high temperatures.
 - Prevents steam and oxygen permeation.
 - UV protection.
- At Amber Polypack we manufacture barrier packaging that provides the necessary technical modify to achieve a single goal:
- "A gratifying consumer experience is required for packaging to evolve into what it should be: a product "container" that simplifies transportation, because what matters is what they contain."



Multi-layer Technology

- Multilayer barrier packaging technology involves the use of polymers with high barrier qualities as well as the attributes required for each product's packaging. Blown coextrusion, which is a variation of blown extrusion technology, is used to link these polymers together to create multi-layered packaging.
- The simultaneous extrusion of two or more polymers to produce a multilayer structure is known as blown coextrusion. Using many extruders, one of which contains a substance with barrier qualities, this technological version allows for the production of multilayer packaging. Depending on the need for preservation and protection of the contained goods, plastic packaging created using this technology in Amber Polypack can have up to 4 layers, Depending on the need for preservation and protection of contained product.
- The wide range of multi-layered plastic packaging we manufacture can be customized for each of our customers and it is suitable for our customers specific needs depending on the product to be contained.



Recyclability



- ✓ Allows 100% recyclability of the container
- ✓ It is not necessary to separate treated packaging from those that have not been treated for recycling.
- ✓ More sustainable supply chain. We try to reduce the weight of the containers to the maximum, decreasing the amount of plastic used for each container.
- ✓ This reduces the cost of packaging, but above all, reduces the cost of transport by achieving a much more sustainable supply chain.



Commitment to safety and sustainability

- There are numerous factors to consider while selecting packaging. We must not overlook its basic functions, which include packaging, protecting, preserving, identifying, and informing about the goods it contains while constantly adhering to current legislation.

It is critical to examine the interactions between PACKAGED PRODUCT » PACKAGE » ENVIRONMENT and the repercussions that occur, as well as the physical risks to which it may be exposed during handling, shipping, stacking, and storage. HDPE is a material that may be used in packaging and is transformed in our facilities using blown extrusion technology.

Its lightness, flexibility, and great impact resistance are only a few of its characteristics. It provides good moisture and water resistance, albeit this is clearly dependent on the density applied.

It is simple to hot seal and stays flexible even at very low temperatures.

As a result, the plastics processing industry has evolved to adopt several options to address HDPE's single and multi-layer packaging's behavioural flaws.

Our Capabilities

- Amber Polypack provides a strategic mix of great technical services and capabilities that convert into product cost effectiveness, production efficiency, speed to market, precise project management, and unparalleled manufacturing knowledge. With our state-of-the-art fully Automatic imported Extrusion Blow Moulding Machine (EBM) for multilayer and monolayer Bottles with online De-flashing, Trimming and Leak Testing, fully automatic imported Injection Blow Moulding machine (IBM) for monolayer bottles and also Milacron make Injection Moulding machine (IMM), as a one stop solution for all liquid/powder in rigid packaging.
- Marketing and sales is been headed by one of our partner having 25+ years of experience in formulations and agrotechnical products with engineering qualification. Also have qualified and experience engineers for operations and quality control. We also have technical expert having more than 25 years of technical experience of polymer extrusion.

Our Products

- COEX Bottles (upto 1L)
- Monolayer Bottle (upto 2L)
- Pilfer proof Bottles (COEX/Monolayer)
- Cap with WAD



Square shape Bottle



Imida round bottle





Pilfer proof bottle


Our Facility

- Geographically we are placed in an easily accessible location for both suppliers and for shipping products to customers, with our production facility near Vadodara, Gujarat having present utilized land space of 8000sq.ft. and 6000sq.ft. shop floor area with additional future expandable land space of 20,000 sq.ft. with 10,000 sq.ft. of constructed area and group of companies located in Ankleshwar, Gujarat having 10,000 sq. ft. land with 8000 sq. ft. shop floor. Our facility has sufficient resources, operating systems and offer a wide diversity of plastics manufacturing including extrusion blow moulding and injection moulding machines, bulk raw materials storage, warehousing and distribution, and much more.



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