

TETRA PACKING

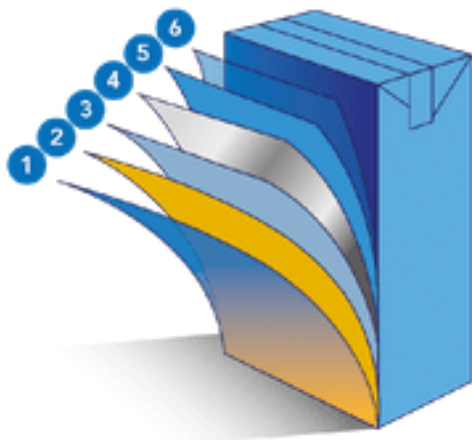
Introduction:

Tetra is a multinational food packaging and processing company of Swedish origin with head office in Sweden and Switzerland. The company offers packaging solution, filling machines and processing solutions for dairy, beverages, cheese, ice cream and prepared food.

Tetra pack is the most common name for aseptic cartons used for liquid food items which have to be stored for up to one year without refrigeration. Aseptic here means “free from pathogenic micro-organisms,” so this packaging process eliminates the food and packages from harmful elements. This type of packaging also blocks light completely to preserve vitamins A, B2, B6, B12, C and K, which are all photosensitive and would become damaged in the presence of light.

Structure of a Tetra pack:

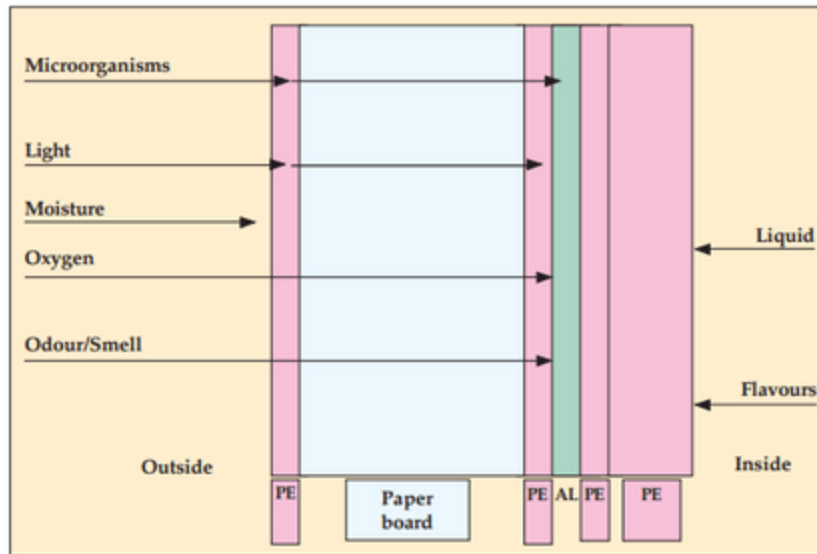
A tetra pack is made of six layers i.e.



1	Polyethylene - protects against outside moisture
2	Paper - for stability and strength
3	Polyethylene - adhesion layer
4	Aluminium foil - oxygen, flavour and light barrier
5	Polyethylene - adhesion layer
6	Polyethylene - seals in the liquid

1. **Polyethylene** – Contributes 15% of the total packaging; it protects from outside moisture.
2. **Paper** – Contributes 80% of the total packaging for providing stability, strength and smoothness to the printing surface.
3. **Polyethylene** – Polyethylene acts as an adhesive layer between other layers.
4. **Aluminum foil** – Contributes 5% of the total packaging. It forms a barrier against light and oxygen, eliminating the need for refrigeration and preventing spoilage without using preservatives.
5. **Polyethylene** – Acts as an adhesion layer.
6. **Polyethylene** – Seals the Liquid from inside.

Diagrammatic Representation of Tetra pack acting as a Barrier:



Product packaging:

TETRA TOP -

Tetra Top brings true versatility to your brand, empowering you to take advantage of new business opportunities as they arise. Great printing possibilities give broad scope for creative package design, so you can develop new products with a modern look and feel that really stand out on the shelf.



Tetra Rex -

Tetra Rex Bio-based is manufactured solely from a combination of plastics derived from sugar cane and paperboard. The bio-based plastics used by Tetra Pak are produced by Brazilian chemical company, Braskem, which sources all of its feedstock from sugar cane.

Tetra Rex Bio-based is available in a range of sizes, from 250 ml to 2000 ml, for all chilled milk specifications.



TETRA BRIK -

Tetra Brik is available in five formats: Base, Mid, Slim, Square and Edge, and in a wide variety of volumes and shapes. Volumes span from 200 ml portion packs to 1000 ml family packs.

Tetra Brik is one of the world's most efficient carriers of beverages. Its rectangular package shape stacks neatly on pallets, in transport containers, on supermarket shelves and in the fridge at home.



Conclusion:

The Tetra pack carton is the future packaging – being primarily made using paperboard (a renewable forest-based resource) and fully recyclable. Not only this it offers consumers convenience, easy opening, optimal shelf life.