





PACKAGING OF CAKES



AATMANIRBHAR BHARAT

PM Formalisation of Micro Food Processing Enterprises Scheme (PM FME Scheme)



PACKAGING



Shelf Life of Product:

- Many new baked goods have a shelf life of just a few days at room temperature.
- > The most popular type of spoilage organism to be related to baked goods is molds.
- ➤ It can last up to 2-3 days when stored in the fridge, or else it lasts for a day or two.





> The quality of the product is also established with the type of process and technology further improves the quality of the product.

The addition of anti-microbial packaging adds value to the product and thus the quality.





> PROPER STORAGE

- When food products are not properly stored, they are spoiled by other food products that are bad for health.
- As germs begin to grow on it, food products stored for a long time get spoiled.
- Spoilage is a phase in which food goods deteriorate to the point that human food is not edible.
- "In most cases it has been seen that these Maida-based instant noodles take a toll on the digestive process.
- Its remnants may reach the appendix area of the body and trigger infection."





PACKAGING

> The bad fats

- Sadly, most processed foods, including saturated fatty acids or trans fats, are filled with notso-good fats.
- The fats that are safe for you are both monounsaturated fatty acids and polyunsaturated fatty acids.
- Instant noodles have saturated fats that can increase the amount of cholesterol in the blood if eaten excessively.







• Food and water can be germ-infected. Germs are borne by bees.

They pass these germs on to our food while they are sitting on our food.

 There are various causes, such as bacteria, mould, yeast, moisture, light, temperature, and chemical reaction, that are responsible for food spoilage.



PACKAGING



Cake Packaging:

> The packaging material- Both practical and marketing specifications.

➤ In order to ensure the consistency of the noodles shape and size during handling, transport, storage, and delivery.

- Packaging Specifications:
 - To protect the product from spillage and spoilage.
 - To provide protection against atmospheric factors such as light, heat, humidity, and oxygen.
 - The selected packaging materials should have high water vapour and oxygen barriers.





• The packaging material should have a high barrier property to prevent aroma/flavour losses and in gross of external odour.

 Therefore, the wrapping material should be resistant to grease and oil and be compliant with the commodity.

• The packaging content should, in addition to the above practical specifications, have good machinability, printability and be readily available and disposable.





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CHARACTERISTICS OF PACKAGING MATERIAL

The material selected must have the following characteristics:

- Must meet tamper-resistance requirements
- Must not reactive with the product
- They must protect the preparation from environmental conditions
- Must be non-toxic
- Must not impart odour/taste to the product
- Must be FDA approved.





TYPES OF PACKAGING



Fundament classification:

Packaging refers to the act of designing and producing the container or wrapper of a product. It is one of the most important parts of marketing.

> Primary packaging:

Primary packaging is packaging which is in close association with the product itself and is often referred to as a consumer unit. The main purpose of the primary packaging is to contain, protect and/or conserve the final product, in particular against contamination.









> Secondary Packaging:

Secondary packaging is the outer packaging of the main packaging, which connects packages and further covers or marks the prescription component.







> Tertiary Packaging:

Tertiary packaging is used for the handling, transportation, and delivery of bulk products.







TYPES OF PRIMARY PACKAGING

✓ Cardboard Cartons-

- Usually used in bakeries, solid board and folding carton cake boxes are available in oneand two-piece designs.
- An interesting, inventive cake box consisting of a tray and lid is named 'Torten Boy.'
- This box can be opened on two sides to cut the cake horizontally rather than upwards.
- This prevents any issues with removing the cake from the box and guarantees that there is no damage.





✓ PILLOW BAGS

 These boxes are made of hard plastic in round shape boxes created for cakes and cookies.

✓ Cardboard cake box fully enclosed –

- This is possibly the most common form of cake box.
- These boxes, often with a glossy outer finish and a matt interior finish, can be made of brown cardboard or white milk board.
- Some may have separate lids, while others are connected to the rest of the box with a flip lid.





- ➤ A window patisserie box is a box with a transparent 'window' of plastic on top of the lid so you can easily see what is inside the box.
- > These boxes are great for cakes that you would like to feature a special message or decoration on top.
- > They provide individuals with a mouth-watering taste of the tasty treat they are about to consume.
- > They deliver great visibility, visual effect and presentation.





✓ CUPCAKE WINDOW BOX



The cupcake window box has a 'window' on its lid, much like the window patisserie box, from which you can see the box's contents.

However, this package has an insert that is specifically designed for cupcakes.

The inserts make sure that while loading or unloading the cupcakes from the package, the delicate cupcake icing is not harmed and also holds the cupcakes in place throughout transport.

 These boxes are mainly intended for cupcakes, but they can also be used for muffins.





ESSENTIALS

- ✓ Shelf-life duration, i.e. the degree of protection required by the commodity against pick-up of moisture, preservation of aroma retention, decolouration, etc (in case taste maker is added)
- ✓ During packaging, transportation, and delivery, environmental conditions.
- ✓ Business type/sector
- ✓ Preferences for users
- ✓ Printability and appeal of aesthetics







The package types generally used as consumer packs are:

- ✓ Plastic cups of various sizes and shapes with labels and provided with metal or plastic caps.
- ✓ The plastic lids have added inbuilt features of tamper evidence, dispensing, grinding, etc.
- ✓ Printed tinplate container with/without dispensing systems.





- ✓ Printed tinplate container with/without dispensing systems.
- ✓ Plastic containers with plugs and caps with dispensing and tamper evidence features.
- ✓ Printed flexible pouches pillow pouch, gusseted pouch, stand-up pouch.
- ✓ Lined cartons



MATERIAL OF PACKAGING



> The most common choice of packaging medium is plastic (generally flexible).

➤ It provides the required protection and preservation, grease resistance, physical strength, machinability, and printability.

➤ Polythene, polypropylene, laminated pouches, PVC wrapped trays and plastic jars were the various packaging materials used.

➤ In terms of preserving consistency during the storage era, the suitability and adoptability of these packaging materials have been examined.





Plastic-based packaging materials that can be used for noodles are listed below.

Polyethylene (PE)

- It is considered to be the backbone of packaging films.
- Polyethylene with its low water vapor transmission is of definite interest.
- Polyethylene films are fairly free of plasticizers and other additives and are quite extensively used as a part of lamination.
- Its ability to heat seal increases its value.
- A copolymer of polyethylene and polyvinyl alcohol and EVOH has outstanding gas barrier properties especially when dry.





> Polypropylene-

- Polypropylene films have better clarity than polyethylene and enjoy superior machinability due to stiffness.
- Lack of good saleability has been a problem; however, PVDC and vinyl coating have been used to overcome this problem.
- Some varieties of PP have been specially developed for twist-wrap applications as they have the ability to lock in position after twisting.





> Polyesters (PET) and Polyamide (PA)

- Polyethylene terephthalate film has high tensile strength, gloss, and stiffness as well as puncture resistance.
- It has moderate WVTR but is a good barrier to volatiles and gases.
- To provide heat seal property, PET is normally laminated to other substrates.
- Nylons or polyamides are similar to PET but have high WVTR.





> Metallised Films

When polymeric films are metalized there is an improvement in their barrier properties.

Metallization is also used for decorative purposes and aesthetics.

• The films, which are used for metallization, are PVC, PET, PP, and polyamides.

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