

Manufacturing of
Urethane Foams, Flexible
Foams, Rigid Foams,
Injection and Co-Injection
Preform, Pet Film and Sheet
(Speciality Plastics, Foams, Pet & Preform)

Introduction

Urethane foam finds multiple applications in the building & construction industry. Flexible and semi-rigid foams are used in paints, coatings, and adhesives, which are extensively used in construction. Rigid foams are widely used as structural and insulation foams in buildings. Insulation is the most important application of polyurethane foams in the building & construction industry. The construction sector is anticipated to lead growth prospects, which will see additional opportunities for foam insulation products bolstered by increasing construction activity.



Polyurethanes are commercially available in various forms, ranging from flexible or rigid lightweight foams to tough, stiff, and strong elastomers. This enables their use in a wide variety of consumer and industrial applications such as thermal insulation of buildings, refrigerators, household furniture, bedding, automotive seating, shoe soles and appliances.

The Indian polyurethane foam market is fast-growing for uses such as insulation for construction and refrigeration, as well as for flexible foam for car seats and two-wheeler seats. The production of flexible foam accounts for the largest share of the Indian polyurethane industry.

The global plastics industry is observing a continuous shift of production bases to low-cost Asian countries. With increasing foreign investment and rise in the number of new manufacturing establishments in the region, Asia has become the largest and the fastest growing market for plastics in the world.

PET is a technically challenging material, and making PET preforms –and ultimately, PET bottles – is a highly competitive, quality- and productivity-driven business. The demand for packaging of food & food products has lead to the development of the plastic packaging industry in the country.



Among the vast family of plastics, Polyethylene Terephthalate, popularly known as PET, is expected to grow the fastest at 11.0% annually. Majority of the PET available in India is utilized in the production of bottles. In the recent years, PET bottles have inundated the Indian market, with annual growth rate in consumption exceeding 20.0%.

When there is a huge demand anticipated in the supply of PET bottles and molds, similar thrust will be felt by PET raw material providers, manufacturers of blow mould machinery, supply chain management operators and many more.

PET preform has large demand for the manufacturing for PET bottle for food and Pharmaceutical Company. The size of the container-produced ranges from 50 ml to 150 ml which is further used for making required size blow moulded bottles. It is easily expanded by compressed air with a specific temperature and does not react with acid or alkali. PET Preform has large demand for the manufacturing of PET bottle for the food and pharmaceutical company. Current worldwide demand for PET for packaging is approx. 5.5 billion pounds. With the growing demand for carbonated soft drinks, water and edible oil, PET Preform bottles are also increasing in demand.

As the benefits of PET become apparent to a greater number of manufacturers and bottlers worldwide, demand continues to grow.

PET sector in India also expects a phenomenal future. Polymer consumption by Indian plastic industry is expected to be double in next 6 years. It means that the magic figure of 20 Million metric tons can be expected by 2020.

Some fundamentals of the book are properties and applications of speciality plastics, thermoplastic polyurethanes, formation of urethane foams, flexible foams, variables in the preparation of prepolymers, procedures for the preparation of prepolymers,

catalyzed prepolymer preparation, application of flexible foams, applications of rigid foams, one-stage injection stretch blow moulding, pet material and applications, injection and co-injection preform technologies, pet film and sheet, plastics as safe & hygienic medium for packaging food & food products.

The book covers processes and other required information for the manufacturing of different specialty plastics, Foams, PET and Pre form PET etc. This is very useful book for new entrepreneurs, technocrats, existing units, institutional libraries etc.

Table of Contents

1. PROPERTIES AND APPLICATIONS OF SPECIALITY PLASTICS

Polytetra Fluoroethylene (PTFE)

Thermoplastic Polyurethanes (TPU)

Polysulphones (PSO)

Polyether Sulphone (PES)

Polyphenylene Sulphide (PPS)

Polyphenylene Ether (PPE)

Polyether Etherketone (PEEK)

Polyarylates

Polyamide Imide (PAI)

Polyether Imide (PEI)

Liquid Crystal Polymers (LCP)

2. FORMATION OF URETHANE FOAMS

Introduction

The Chemistry of Foam Formation and cure

- 1. Reaction of Isocyanates**
- 2. Function of the isocyanate in Foaming**
- 3. Role of Catalysts in Foam systems**
 - A. The Tertiary Amine Catalysts**
 - B. The Tin Catalysts**
 - C. Mixed Catalysts Systems**

The Final Cure of Urethane Foams

Colloid Chemistry of Foam Formation

- 1. Bubble Nucleation**
- 2. Bubble Stability**
- 3. Urethane Foam Systems**

Viscoelastic Changes in Foaming

- 1. Effect on Cell Structure, Voids, and Foam Collapse**

2. Relations between Cell Structure and Properties

3. Structure Factors Affecting Stress Relaxation and Creep in Flexible Foams

3. FLEXIBLE FOAMS

Introduction

Raw Materials Used in Flexible Foams

- 1. Isocyanates**
- 2. Polyols Blowing**
- 3. Agents Catalysts**
- 4. Surfactants**
- 5. Miscellaneous Additives**

Foam Systems

- 1. General Methods of Preparation**
- 2. Prepolymers**

A. Variables in the preparation of prepolymers

- 1. Raw Materials Control**
- 2. Effect of Isocyanate-Hydroxyl Ratio**
- 3. Effect of Polyol Variation**
- 4. Effect of Reaction Time and Temperature**
- 5. Effect of water**
- 6. Effect of catalysts**
- 7. Effect of Agitation**
- 8. Effect of Reactor size**

B. Procedures for the preparation of prepolymers

- 1. Batch Procedures**
- 2. Preparation of Prewolymer with Biuret Branching**
- 3. Preparation of Prepolymer with Allophanate Branching**
- 4. Preparation of Prepolymer with Urethane Branching**
- 5. Preparation of Polyester Prepolymer**
- 6. Preparation of Castor Oil-Based Prepolymers**

7. Batch Plant Process for Polyether Prepolymers

8. Catalyzed Prepolymer Preparation

9. Stabilization of Prepolymers

C. Foaming of prepolymers

1. Free Isocyanate Content

2. Water

3. Surface Active Agents

4. Catalysts

5. Other Additives

Plasticizers

Pigments and Fillers

Flame Retardants

3. Semi-Prepolymers

4. One-shot Foams

1. Chemical variations

Effect of water

Effect of Catalysts

Effect of Emulsifiers and Additives

2. Mechanical Variations

3. Physical Variations

4. Formulation Variations

B. Variables in the preparation of one-shot Polyether Foams

1. Effect of Polyols

2. Effect of Diisocyanate

3. Effect of Blowing Agents

4. Effect of Catalysts

5. Effect of Silicones

6. Effect of Filters and Additives

7. Formulation Variations

Methods of Foam Application

1. Foaming Equipment

2. Manufacture of Slab Stock

- A. Foam Production**
- B. Sectioning of Slab Stock**
- C. Counter Shaping**
- D. Post-Forming**
- 3. Molding of Flexible Foam**
- 4. Frothing of Flexible Foams**
- 5. Foaming of Urethane Elastomers**
- 6. Spraying of Flexible Foams**
- Properties of Flexible Foams**
 - 1. General Properties**
 - 2. Specific Properties**
 - A. Aging of Flexible Foam**
 - B. Sound Absorption**
 - C. Low and High Temperature Properties**
 - D. Solvent and Chemical Resistance**
 - E. Oxidation and Ultraviolet Resistance**

F. Flammability of flexible Urethane Foams

G. Fatigue Properties

Application of Flexible Foams

- 1. Furniture**
- 2. Bedding**
- 3. Transportation**
 - A. Automotive**
 - B. Aircraft**
 - C. Public Seating**
- 4. Packaging**
- 5. Clothing, Textile and Miscellaneous Foam Laminates**
- 6. Carpet Underlay**
- 7. Sporting goods**
- 8. Toys and Novelties**
- 9. Sponges and Miscellaneous Household Items**
- 10. Filtering Materials**

11. Construction, Insulation and Miscellaneous Uses

12. Military and Missile Uses

13. Horticultural

14. Footwear

15. Medical

Miscellaneous Flexible Foam Systems

4. RIGID FOAMS

Introduction

1. Raw Material used in Rigid Foams

1. Isocyanates

2. Polyols

3. Blowing Agents

4. Catalysts

5. Surfactants

6. Flame Retardants

7. Miscellaneous Additives

Foam System

1. Polymer Preparation

A Semi-Prepolymer

B. Complete Prepolymer

C. One-shot Systems

2. Foam Preparation

A. Effect of Isocyanate Variations

B. Effect of Polyol Variations

C. Effect of Blowing Agents

D. Effect of Catalysts

E. Effect of Surfactants

F. Effect of Fillers

G. Flame Retardants

Methods of Foam Production

- 1. Batch Preparation**
- 2. Continuous of Intermittent Pouring**
 - A. Nonfroth Systems**
 - Metering Equipment**
 - Mixing of Components**
 - B. Frothing System**
- 3. Spraying**
- 4. Production of Finished Foam**
 - A. Continuous Slab Production**
 - B. Molding Operations**
 - C. Foming-in-Place**
- Foam Properties**
 - 1. Genral Properties**
 - 2. Specific Properties**
 - A. Coefficient of Expansion**
 - B. Service Temperature**

- C. Closed Cell Content**
 - D. Thermal Insulation**
 - E. Adhesion to Various Substrates**
 - F. Water Absorption**
 - G. Water Vapor Permeability**
 - H. Humid Aging**
 - I. Solvent Resistance**
 - J. Electrical Properties**
 - K. Sound Insulation**
 - L. Fungus Resistance**
- Applications of Rigid Foams**
- 1. Refrigeration Insulation**
 - 2. Refrigerated Trucks and Trailers**
 - 3. Insulation of Pipes and Tanks**
 - 4. Structural Uses**

- 5. Uses in the Aircraft Industry
 - 6. Military Uses
 - 7. Void Filling and Insulation of Ships
 - 8. Uses in Packaging
 - 9. Uses in the Electric Industry
 - 10. Aerospace Applications
 - 11. Miscellaneous Uses
- Miscellaneous Foaming Systems

5. ONE-STAGE INJECTION STRETCH BLOW MOULDING

Introduction

One-Stage Machines

1. One-Stage Machine Construction

Process Stations on one-Stage Machine

1. Injection mould and hot runner

A. Process conditions affecting perform quality

2. Conditioning Station

3. Blowing Station

Integrated Two-Stage machines

Drying System

1. Requirements for a reliable drying system

2. Drying process monitoring

Preform Design

1. Neck finish

2. Preform weight

3. Cycle time and preform wall thickness

4. Stretch ratios

5. Injection mould design and manufacture

6. Preform design for varying container sizes

7. Preform weight adjustment

8. Difference between one- and two-stage preform designs

Container Design

Hot-Fill Pet Bottles

Quality Control Procedures

Preform Examination

- 1. Appearance and shape**
- 2. Preform weight**
- 3. Neck dimensions**
- 4. Preform eccentricity**
- 5. Polarised light inspection**
- 6. Intrinsic Viscosity (IV)**
- 7. Actetaldehyde (AA)**

Container Examination

- 1. Shape and appearance**
- 2. Dimensions**
- 3. Capacity**
- 4. Container wall thickness and material distribution**

5. Top load strength
6. Impact resistance (drop) test
7. Leakage of liquid (seal integrity)
8. Vacuum strength
9. Acetaldehyde (AA)
10. Oxygen permeation
11. Moisture Vapour transmission rate
12. Product filling temperature
13. Container weight

Bottles for Carbonated Beverages

1. Burst pressure
2. Thermal stability
3. Carbon retention

Additional Tests for Hot-Fill containers

Additional Tests for Returnable/refillable Pet Bottles

6. INJECTION BLOW MOULDING

Introduction

Basic Principles

History

Commercial Processes

1. Rotary table machines : Jomar, Uniloy and similar

Tooling

Procrea

Material

Applications

Machine and Process Capabilities

7. PET MATERIAL AND APPLICATIONS

Introduction

Polymerisation and Manufacturing Processes

1. Manufacturing plants

Structures, Morphology and Orientation

- 1. Structure**
- 2. Morphology**
- 3. Orientation**
- 4. Creep**

Properties

- 1. Molecular weight and intrinsic viscosity**
- 2. End group**
- 3. Thermal properties**
- 2. End group**
- 3. Thermal properties**

Rheology and Melt Viscosity

- 1. Melt viscosity**
- 2. Melt Flow**
- 3. Moulding Shrinkage**

Moisture Uptake and Polymer Drying

1. Moisture level

2. Polymer drying

Degradation Reactions

1. Thermal and thermal oxidative degradation

2. Environmental Degradation

Reheat Characteristics

Gas Barrier properties

Amorphous Polyesters

1. Homopolymers

2. Low copolymers

3. Medium copolymers

4. High copolymers

Crystalline polymers

Polymer Blends

Applications

Trends

Globals



8. INJECTION AND CO-INJECTION PREFORM TECHNOLOGIES

Multilayer Characteristics

Applications

- 1. Performance-Driven Applications**
- 2. Economics - or Legislative-Drive Applications**
- 3. Combination Applications**

Closure vs Bottle Permeation

Container Performance

- 1. Barrier properties**
- 2. Oxygen barrier**
- 3. Carbon dioxide barrier**
- 4. Scavenger property**

Wall structure

Preform and Bottle Design

- 1. Permeation through finish, sidewall and base**
- 2. Controlled fill**

Headspace Oxygen Absorption
Oxygen Desorption From Pet
Beer Containers
Small Juice Containers
Small CSD containers
Core layer volumes
Comparison of Co-Injection technologies
Co-Injection Moulding Equipment

9. PET FILM AND SHEET

Introduction

The Film Process

1. Polymer preparation and handling
2. Extrusion and Casting
 - a. Extrusion
 - b. Casting

3. Drawing

- a. The forward draw preheat (FWDPH)**
- b. The forward draw (FWD)**
- c. The sideways draw preheat (SWDPH)**
- d. The sideways draw (SWD)**

4. Heat Setting

5. Slitting and Winding

- a. In line slitting and knurling**
- b. Winding conditions**

6. Reclaim and recovery

Polymer, Process and Properties (3ps)

- 1. Polymer**
- 2. Process**
- 3. Properties**

Surface and Bulk Properties

1. Film properties
2. Coating
3. Co-extrusion
4. Fillers
5. Shrinkage
6. Combination of effects

PET Sheet

1. Extrusion of PET sheet
2. Thermoforming of CPET sheet
4. Material
5. New developments

Conclusion-Film

10. PLASTICS AS SAFE & HYGIENIC MEDIUM FOR PACKAGING FOOD & FOOD PRODUCTS

Glimses of Modern India

Views & changing practices
Scarcity among plenty
Consumer market
Food packaging a need
Food Safety The Ultimata
Risk assessment & food packaging regulations
Compatibility studies
Migration modelling
Package Design
Packaging Development Process
Plastics as a Choice
Plastic Use for Packaging in India
Lowest cost packaging
Plastic-Packaging Solution for Food Products
Growing user of plastic in Packaging
Plastics and their present usages

Indian Polymer Demand in KTPA

Plastics reduce post harvest wastage

Wastage of food product in India

Plastic crates for post harvest packing

Polypropylene boxes for horticulture packaging

Plastics in bulk packaging

Bulk Packaging Jute V/s PWS

Suitability of PP/PE Bags for Food Grains & Sugar Storage

Specialized Food Packaging

Case study

Plastics & Food shelf Life

Plastics packaging for sterilized/irradiated food products

National Standards on Packaging code for fresh & Processed Food

Indian Food Laws and Packaging specification

Edible Oil packaging Act

Packaging, Plastics & Environment
IS packaging or plastics the Real Culprit
ECO- Protection programmes
Future: What plastics have to offer

11. TWO STAGE INJECTION STRETCH BLOW MOULDING

Introduction

- 1. The principles of the Two-stage process**
 - a. Preform moulding**
 - b. Container stretch blow moulding**
 - c. Preform and container design**
 - 2. Technological Basics of Pet as a Stretch Blow moulding material**
 - 3. Production concepts and target market**
- Preform Injection Moulding**

1. Injection machine concepts

a. Plasticizing

Clamping

2. Mould Design

a. Hot runner system

b. Gates and cavities

Productivity Parameters

a. Cycle time

b. Preform design and key related parameters

c. Preform quality and key related parameters

Stretch Blow Moulding

1. Principles of the two stage stretch blow moulding process

a. Preform reheating

b. Stretch blow moulding



Technologies for thermally stable containers

Thermal relaxation and pre-shrinkage

Hot-fill

Heat-set

Super heat-set

2. Machinery concepts

Mould technology

Preform and Container Design

Container design

Preform design

Niir Project Consultancy Services (NPCS)
can provide Process Technology Book on
Speciality Plastics, Foams
(Urethane, Flexible, Rigid)
Pet & Preform Processing

See more

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Our Approach

Requirement collection



Thorough analysis of the project



Economic feasibility study of the Project



Market potential survey/research



Report Compilation

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- *Activated Carbon & Activated Charcoal*
- *Aluminium And Aluminium Extrusion Profiles & Sections,*
- *Bio-fertilizers And Biotechnology*
- *Breakfast Snacks And Cereal Food*
- *Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling*

- *Bamboo And Cane Based Projects*
- *Building Materials And Construction Projects*
- *Biodegradable & Bioplastic Based Projects*
- *Chemicals (Organic And Inorganic)*
- *Confectionery, Bakery/Baking And Other Food*
- *Cereal Processing*
- *Coconut And Coconut Based Products*
- *Cold Storage For Fruits & Vegetables*
- *Coal & Coal Byproduct*

- *Copper & Copper Based Projects*
- *Dairy/Milk Processing*
- *Disinfectants, Pesticides, Insecticides, Mosquito Repellents,*
- *Electrical, Electronic And Computer based Projects*
- *Essential Oils, Oils & Fats And Allied*
- *Engineering Goods*
- *Fibre Glass & Float Glass*
- *Fast Moving Consumer Goods*
- *Food, Bakery, Agro Processing*

- *Fruits & Vegetables Processing*
- *Ferro Alloys Based Projects*
- *Fertilizers & Biofertilizers*
- *Ginger & Ginger Based Projects*
- *Herbs And Medicinal Cultivation And Jatropha (Biofuel)*
- *Hotel & Hospitality Projects*
- *Hospital Based Projects*
- *Herbal Based Projects*
- *Inks, Stationery And Export Industries*

- *Infrastructure Projects*
- *Jute & Jute Based Products*
- *Leather And Leather Based Projects*
- *Leisure & Entertainment Based Projects*
- *Livestock Farming Of Birds & Animals*
- *Minerals And Minerals*
- *Maize Processing(Wet Milling) & Maize Based Projects*
- *Medical Plastics, Disposables Plastic Syringe, Blood Bags*
- *Organic Farming, Neem Products Etc.*

- *Paints, Pigments, Varnish & Lacquer*
- *Paper And Paper Board, Paper Recycling Projects*
- *Printing Inks*
- *Packaging Based Projects*
- *Perfumes, Cosmetics And Flavours*
- *Power Generation Based Projects & Renewable Energy Based Projects*
- *Pharmaceuticals And Drugs*
- *Plantations, Farming And Cultivations*
- *Plastic Film, Plastic Waste And Plastic Compounds*
- *Plastic, PVC, PET, HDPE, LDPE Etc.*

- *Potato And Potato Based Projects*
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- *Rubber And Rubber Products*
- *Soaps And Detergents*
- *Stationary Products*
- *Spices And Snacks Food*
- *Steel & Steel Products*
- *Textile Auxiliary And Chemicals*

- *Township & Residential Complex*
- *Textiles And Readymade Garments*
- *Waste Management & Recycling*
- *Wood & Wood Products*
- *Water Industry(Packaged Drinking Water & Mineral Water)*
- *Wire & Cable*

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