Plastics play a very important role in our daily lives. Throughout the world the demand for plastic, particularly plastic packaging, continues to rapidly grow. Polymer technology deals with the manufacture and production of polymer and synthetic substances. Plastic is incredibly versatile and can be made from different ingredients, moulded into any shape, and put to a huge range of uses across industry and the rest of society, from carrier bags to electrical cables. Polymer energy system is an award winning, innovative, proprietary process to convert waste plastics into renewable energy. Some of the important example of polymers and plastics are polytetra fluoroethylene (PTFE), polyether sulphone (PES), phenol-formaldehyde (PF), polyolefins, vinyl polymers, thermoplastic polyesters, polysulfones, poly(phenylene sulfide), etc. Polymers are the most rapidly growing sector of the materials industry. The Indian plastic industry has taken great strides. In the last few decades, the industry has grown to the status of a leading sector in the country with a sizable base. The material is gaining notable importance in different spheres of activity and the per capita consumption is increasing at a fast pace. Continuous advancements and developments in polymer technology, processing machineries, expertise, and cost effective manufacturing is fast replacing the typical materials in different segments with plastics. On the basis of value added, Indian share of plastic products industry is about 0.5% of national GDP.

The major contents of the book are properties and applications of speciality plastics, thermoset plastics, applications of recycle plastics, introduction of polymer science, polymer additives, blends and composites, commodity thermoplastics and fibres etc. This book also consists of raw material suppliers for plastic and plastic products, manufacturers of plastic, processing machinery, plastics processing machinery and equipment (foreign), machinery and equipment for plastic converting, extruders and extrusion lines, injection moulding machines, presses and accessories, blow moulding and thermoforming machines etc. The book has been designed with the idea of blending and integrating basic polymer science and the technology of plastics into a composite structure. This book is an outcome of an endeavour in the direction of polymer and plastic processing. It would be of immense use to entrepreneurs, consultants, students and libraries etc.

Contents

1. PROPERTIES AND APPLICATIONS OF SPECIALITY PLASTICS
   Polytetra Fluoroethylene (PTFE)
   Characteristics
   Applications
   Thermoplastic Polyurethanes (TPU)
   Characteristics
Applications
Polysulphones (PSO)
Characteristics
Applications
Polyether Sulphone (PES)
Characteristics
Applications
Polyphenylene Sulphide (PPS)
Characteristics
Applications
Polyphenylene Ether (PPE)
Characteristics
Applications
Polyether Etherketone (Peek)
Characteristics
Applications
Polarylates
Characteristics
Applications
Polyamide-I-mide (PAI)
Characteristics
Applications
Polyether-I-mide (PEI)
Characteristics
Applications
Liquid Crystal Polymers (LCP)
Characteristics
Applications
2. PROPERTIES AND APPLICATIONS OF THERMOSET PLASTICS
Phenol-Formaldehyde (PF)
Characteristics
Applications
Amino Plastics
Characteristics
Applications
Melamine Formaldehyde
Urea Formaldehyde
Epoxy Resins
Characteristics
Applications
Silicone forms
Characteristics
Applications
Silicone fluids
Silicone Resins
Silicone Elastomers

3. APPLICATIONS OF RECYCLED PLASTICS
Introduction
Recycled LDPE
Recycled HDPE
Recycled Polypropylene
Recycled PVC
Recycled PS
Recycled PET
Recycled Commingled Plastics Waste

4. INTRODUCTION TO POLYMER SCIENCE
Classification of Polymers
Thermoplastics and Thermosets
Classification Based upon Polymerization Mechanism
Classification Based upon Polymer Structure
Polymer Structure
Copolymers
Tacticity
Geometric Isomerism
Nomenclature
Molecular-Weight Distribution
Molecular-Weight Averages

5. POLYMER ADDITIVES, BLENDS AND COMPOSITES
Additives
Plasticizers
Fillers and Reinforcements
Other Important Additives
Polymer Blends
Interpenetrating Networks
Mechanical Properties
Composite Fabrication
Reference

6. COMMODITY THERMOPLASTICS AND FIBERS
Thermoplastics
Polyolefins
Vinyl Polymers
Thermoplastic Polyesters
Fibers
Natural and Synthetic Fibers
Cellulose
Noncellulosics
Fiber-Spinning Operations

7. ENGINEERING AND SPECIALTY POLYMERS
Engineering Plastics
Polyamides
ABS
Polycarbonates
Modified Poly(phenylene oxide)
Acetal
Polysulfones
Poly(phenylene sulfide)
Engineering Polyesters
Fluoropolymers
8. POLYMER PROCESSING AND RHEOLOGY

- Extrusion
- Molding
- Calendering
- Coating

Non-Newtonian Flow

Viscosity of Polymer Solutions and Suspensions
Constitutive Equations
Elastic Properties of Polymeric Fluids
Pressure (Poiseuille) Flow
Drag Flow

Capillary Rheometer
Couette Rheometer
Cone-and-Plate Rheometer
Rheometric Characterization of Polymer Solutions and Melts

Introduction to the Modeling of Polymer-Processing Operations: Extrusion

Appendices

9. COMPONENTS OF A THERMOPLASTIC STRUCTURAL COMPOSITE

- Thermoplastic Matrix Resins
- Chain Extendable Resins
- Amorphous Thermoplastics
- Orientable Polymer Matrices
- Semi-crystalline Thermoplastic Polymers
- Polymer Blends and Compounds
- The ‘Victrex’ Range of Aromatic Polymers

This allows for easy crystallization of the polyetherketone family.

Polyetheretherketone

Reinforcing Fibres
Organic Polymeric Fibres
Inorganic Filaments
Carbon Fibres
High Strength Carbon Fibres

Interfaces and Interphases
Wetting of the Fibre by the Resin
Chemical Bonding
Mechanical Interlocking
Crystalline Interactions

Thermoplastic Structural Composite Materials

10. PROCESSING SCIENCE AND MANUFACTURING TECHNOLOGY
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NIIR PROJECT CONSULTANCY SERVICES, 106-E, Kamla Nagar, New Delhi-110007, India. Email: npcs.india@gmail.com Website: NIIR.org

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