

Plastic



Discovered in the mid-nineteenth century, plastic comes from hydrocarbons. As it presents various features and its cost is low, plastic has numerous applications.

MOLECULAR STRUCTURE

Plastic is a synthetic polymer. Polymers are macromolecules consisting of repeating smaller units: the monomers.

The monomers derive from hydrocarbons, and are primarily composed of carbon and hydrogen. Some monomers may contain nitrogen, oxygen, fluorine, etc. These monomers used to produce plastic are hydrocarbons with a simple and low-cost structure.

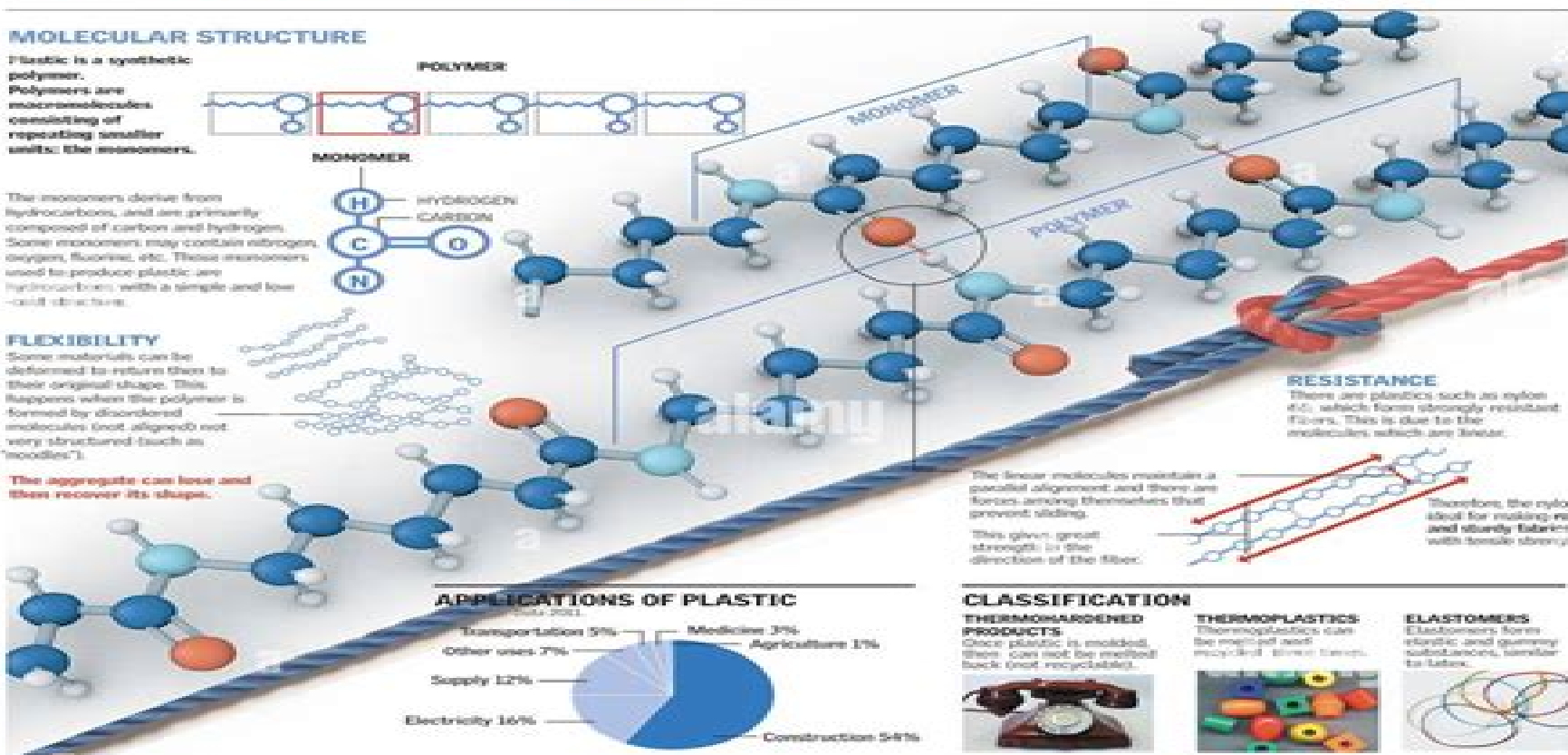
FLEXIBILITY

Some materials can be deformed to return them to their original shape. This happens when the polymer is formed by disordered molecules (not aligned not very structured (such as "noodles").

The aggregate can lose and then recover its shape.

POLYMER

MONOMER



RESISTANCE

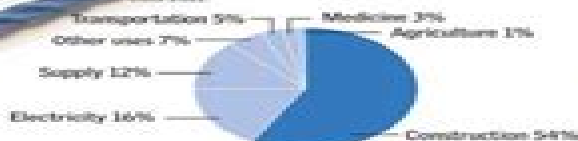
There are plastics such as nylon 6,6 which form strongly resistant fibers. This is due to the molecules which are linear.

The linear molecules maintain a parallel alignment and there are forces among themselves that prevent sliding.

This gives great strength in the direction of the fiber.

Therefore, the nylon is ideal for making ropes and sturdy fabrics with tensile strength.

APPLICATIONS OF PLASTIC



CLASSIFICATION

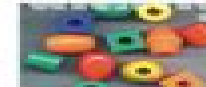
THERMOHARDENED PRODUCTS

Once plastic is molded, there can not be melted back (not recyclable).



THERMOPLASTICS

Thermoplastics can be melted and recycled (since linear).



ELASTOMERS

Elastomers form elastic and gummy substances, similar to latex.



IDENTIFICATION OF THERMOPLASTICS

The identification help to properly separate them for recycling.



The number 1 and the acronym PET (terephthalate) identify it as polyethylene.

The arrows show it is recyclable.



Plastics Materials Properties And Applications

General Electric Company



Plastics Materials Properties And Applications:

Plastic Materials Birley, 2012-12-06 Plastics are part of everyday life and contribute immensely to the benefit of humanity. When failures occur, they are due in part either to inferior properties resulting from poor design or badly controlled processing or to an incomplete understanding of the properties and applications of plastics materials. Since publication of the first edition, the plastics industry has increasingly adopted advanced business procedures and automation such as closed loop control and robotics to combat the effects of recession and has moved increasingly towards methods based on sound scientific and technological principles. Plastics have increasingly been used in applications once dominated by the use of metals and ceramics. For instance, in the automotive industry, the modern car now contains a much higher proportion of polymers including commodity plastics and more specialized materials. In addition, compact discs are being made from new injection moulding grades of polycarbonate which meet the requirements of a demanding process. This second edition has been thoroughly revised and extended to include new materials technologies and design concepts. Chapters on thermoplastics reflect the development of polymer blends and alloys, whilst the chapters devoted to thermosets have been reorganized to accommodate the renaissance in the applications of phenolics and to cover the growing importance of polyurethanes. The related two component process technologies are now included, having undergone major developments in the last decade; they have become important shaping processes.

Plastics Materials Arthur W. Birley, Richard J. Heath, Martyn J. Scott, 1988

Polymeric Materials Gottfried Wilhelm Ehrenstein, 2012-11-12 The book is intended to reveal the correlation between the chemical structure and the physical characteristics of plastics necessary for appropriate material selection, design and processing. The entire spectrum of plastics is addressed, including thermoplastics, thermosets, elastomers and blends. One of the special features is the extensive discussion and explanation of the interdependence between polymer structure and properties and processing. **Polymeric Materials** contains several application oriented examples and is presented at an intermediate level for both practicing plastic engineers and advanced engineering students.

Contents: General Characteristics of Polymeric Materials, Molecular Structure and Synthesis of Polymers, Structure of Polymeric Materials, Thermomechanical Properties, Mechanical Behaviour, Aging and Stabilization, Overview of Selected Polymeric Materials, Guide Values of the Physical Properties.

Plastics for Engineers Hans Domininghaus, 2000-01-01 This classic provides a comprehensive analysis of the properties and applications for the wide range of plastics of technical and commercial interest, with descriptions and data essential in selecting suitable materials.

Makromolekulare Chemie Bernd Tieke, 2024-11-05 Seit mehr als 25 Jahren ist dieses Lehrbuch das Standardwerk zum Einstieg in die Makromolekulare Chemie. Kompakt, übersichtlich und verständlich werden die Synthese, Charakterisierung, Eigenschaften und Reaktionen sowie Anwendungen von Polymeren beschrieben. Für die vierte Auflage wurde das Buch komplett bearbeitet, aktualisiert und um wichtige Kapitel erweitert, wie z. B. natürliche Polymere und Biomakromoleküle, Dendrimere, hyperververzweigte Polymere und

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Adult Catalog: Subjects Los Angeles County Public Library, 1970 *Western Aviation, Missiles, and Space*, 1955

Polymeric Materials G. W. Ehrenstein, Richard P. Theriault, 2001 The book is intended to reveal the correlation between the chemical structure and the physical characteristics of plastics necessary for appropriate material selection design and processing The entire spectrum of plastics is addressed including thermoplastics thermosets elastomers and blends One of

the special features is the extensive discussion and explanation of the interdependence between polymer structure and properties and processing

Polymer Testing Wolfgang Grellmann, Sabine Seidler, 2013-10-01 Rapid growth and development in plastics production and application created a demand for meaningful measuring and analysis methods in polymer testing Advances in electronic measuring techniques led to further developments in classic testing methods as well as to completely new methods for which the first edition of Polymer Testing was written Considerable advances in the evaluation of structure property correlations and standardization have taken place since the first edition of Polymer Testing so the book has been comprehensively revised This updated edition covers the latest developments in the field including amendments to the most important polymer testing standards Included in this edition is essential information about damage processes and deformation mechanisms that can be discovered with the help of coupled non destructive polymer testing methods and hybrid methods of polymer diagnostics respectively Numerous examples for the optimization of polymers and their composites and the assessment of component properties provide a material science focused insight into modern polymer testing Contents Preparation of Specimens Determining Process Related Properties Mechanical Properties of Polymers Fracture Toughness Measurements in Engineering Plastics Testing of Physical Properties Evaluating Environmental Stress Cracking Resistance Non Destructive Polymer Testing Hybrid Methods of Polymer Diagnostics Testing of Composite Materials Technological Testing Methods Testing of Microcomponents

Conference Proceedings Society of Plastics Engineers. Technical Conference, 1997

Plastics Nigel J. Mills, 1993 From the physical properties explained in terms of microstructure the book compares mechanical chemical and electrical properties of plastics with alternative materials Manufacturing processes are considered and their impact on the design of plastic products

Mechanical Engineering American Society of Mechanical Engineers, 1947

General Electric Review General Electric Company, 1944

Materials in Design Engineering ,1960

Thermoplastic Materials Christopher C. Ibeh, 2011

Modern Plastics Encyclopedia ,1989

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