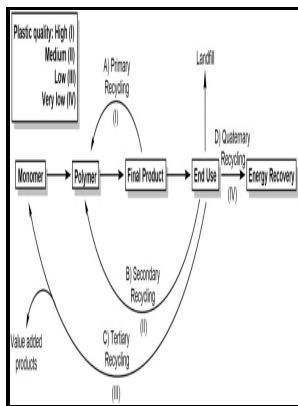


Structural plastics - properties and possibilities.

American Society of Civil Engineers - The Basics: Polymer Definition and Properties



Description: -

-Structural plastics - properties and possibilities.

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Notes: From a Symposium conducted by the Committee on Plastics of the Structural Division of the National Structural Engineering Meeting at Louisville, Kentucky, April 1969.

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Properties and Uses of Plastics as a Construction Material

Polymers contain a wide variety of functional groups, responsible for the diversity in physical properties. However, as the temperature approaches the glass transition temperature of the material, a sharp decline occurs.

On the possibility of producing a nanocrystalline structure in magnesium and magnesium alloys

Metals, particularly if pure, are quite malleable and easily bent-moulded into a specific shape because the layers of atoms can slide over each other without permanently breaking the bonds.

Structural Plastic

Addition polymerization is the formation of polymers from monomers containing a carbon-carbon double bond through an exothermic addition reaction.

Home

There are polymers that contain only carbon and hydrogen atoms. On the left of Figure 31. A key parameter of a polymer is its molecular weight.

Plastic Lumber Possibilities

These plastics can only be molded once and they cannot be softened on further heating.

On the possibility of producing a nanocrystalline structure in magnesium and magnesium alloys

Fixing Fixing of plastic materials is so easy. Upon the combination of monomers, we get polymers or plastics. And yard trimmings constituted 13.

Plastic Lumber Possibilities

Examples: Polystyrene, Teflon, Acrylic, Nylon, etc.

10+ GENERAL PROPERTIES OF PLASTIC AS A CONSTRUCTION MATERIAL

Moisture Resistance This property depends upon variety of plastics used, for example, cellulose plastics are considerably affected by the presence of moisture, whereas polyvinyl chloride plastics offer high resistance to moisture.

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