

# Processability and Applications of Plastics Engineering



## Engineering with Rigid PVC: Processability and Applications (Plastics Engineering Book 6) by I. Luis Gomez

★★★★★ 5 out of 5

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Plastics are a versatile and important material that is used in a wide range of applications. They are lightweight, durable, and relatively inexpensive, making them ideal for use in a variety of products, from toys to medical devices. Plastics engineering is the field of study that focuses on the synthesis, characterization, processing, and applications of plastics.

## Synthesis and Characterization of Plastics

The first step in plastics engineering is to synthesize the plastic. This can be done through a variety of methods, including polymerization, polycondensation, and cross-linking. Once the plastic has been synthesized, it must be characterized to determine its properties. This can be done through a variety of techniques, including mechanical testing, thermal analysis, and spectroscopy.

## Processing of Plastics

Once the plastic has been characterized, it can be processed into a variety of shapes and forms. This can be done through a variety of methods, including injection molding, extrusion, and blow molding. The processing method that is used will depend on the desired shape and form of the plastic product.

## **Applications of Plastics**

Plastics are used in a wide range of applications, including:

- Automotive
- Aerospace
- Medical
- Construction
- Consumer products

The specific application of a plastic will depend on its properties. For example, plastics that are lightweight and durable are ideal for use in automotive and aerospace applications. Plastics that are resistant to heat and chemicals are ideal for use in medical and construction applications. Plastics that are flexible and easy to process are ideal for use in consumer products.

Plastics engineering is a complex and challenging field, but it is also a rewarding one. Plastics are a versatile and important material that can be used to create a wide range of products. With a strong understanding of plastics engineering, you can develop new and innovative products that will improve the lives of people around the world.



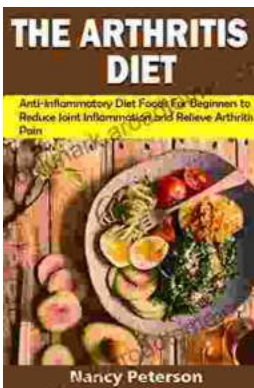
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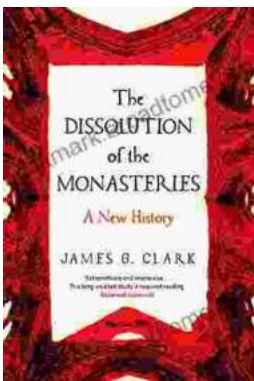
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