

Mechanical Working in Plastic Polymers

Background:

Amorphous polymers are known to have random molecular packing through which they can easily break down the stress of a local structure. Consequently, amorphous polymers have a high degree of ductility. However, crystalline polymers, which have order in the molecular configuration, have a more regular packing of molecules. This regular packing makes it difficult for the polymer chains to move past each other, leading to a more rigid and brittle material. The degree of crystallinity (the amount of crystalline structure) in a polymer affects its mechanical properties. High crystallinity leads to higher strength and stiffness but lower impact resistance. The amorphous regions act as the weak points where deformation can occur. The overall mechanical behavior of a polymer is a result of the balance between these crystalline and amorphous regions. For example, high-density polyethylene (HDPE) has a high degree of crystallinity, making it strong and stiff, while low-density polyethylene (LDPE) has a lower degree of crystallinity, making it more flexible and impact-resistant.

Objectives:

1. Understand the mechanical properties of polymers.
2. Study the effect of crystallinity on the mechanical properties of polymers.

Materials:

- 1. Polymers (e.g., HDPE, LDPE)
- 2. Tensile testing machine
- 3. Compression testing machine

Procedure:

1. Preparation of a sample of polymer (e.g., HDPE or LDPE) for mechanical testing. The sample should be prepared in a standard shape (e.g., tensile bar) and tested at room temperature.
2. Conduct a tensile test on the sample. Record the load and displacement data. Calculate the tensile strength and elongation at break.
3. Conduct a compression test on the sample. Record the load and displacement data. Calculate the compressive strength and buckling load.
4. Compare the results of the tensile and compression tests. Discuss the differences in mechanical behavior between the two types of loading.

Observe the effect of crystallinity on the mechanical properties.



a. Photo of a tensile testing machine

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