

INTRODUCTION TO POLYMER SCIENCE AND PROCESSING

The objective of this work was to overview some aspects of the polymer science. The reaction of polymerisation has been studied, taking into account the chain- and growth-polymerisation system. The characteristics of each type of polymerisation, as well as the differences between them, has been analyzed, giving examples of both of them.

After that, the properties of polymers has been studied, physical properties such as crystallinity, as well as mechanical ones, in order to understand the conditions that must be employed to process this kind of materials.

Finally, two types of processing has been analysed: injection and extrusion. The type of machines employed and the conditions needed during the processing of different polymers has been summarized in this third part of the project.

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