



Processamento de Polímeros: Plasticização em Extrusoras Monofuso (Portuguese Edition)

António Gaspar-Cunha

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No processamento de polímeros uma das etapas mais importantes é a plasticização, a qual consiste na transformação da matéria-prima, inicialmente no estado sólido (na forma de grânulos ou pó), num fluído viscoso. Na indústria transformadora de plásticos praticamente todos os polímeros passam por um processo de plasticização, onde um ou mais parafusos forçam o material sólido a passar por zonas aquecidas de um cilindro onde funde. Este processo termomecânico ocorre na moldação por injeção, na moldação-sopro, na extrusão monofuso e de duplo-fuso e mesmo a matéria-prima (em forma de folha) usada na termoformação é fabricada usando uma extrusora. Pretende-se neste texto apresentar os modelos matemáticos desenvolvidos para o cálculo da previsão do desempenho de extrusoras monofuso (incluindo parafusos barreira, secções de mistura e cilindros com rasgos) em função das propriedades dos polímeros, da geometria do sistema e das condições operatórias. Pretende-se, também, que estas notas sirvam de apoio à disciplina de Processamento de Polímeros ministrada nos cursos de Engenharia de Polímeros e Materiais da Universidade do Minho. Nesse sentido, neste livro, serão apresentados os conceitos básicos necessários para se entender o processo, as propriedades relevantes (e a forma como poderão ser quantificadas nos modelos apresentados), os modelos matemáticos desenvolvidos e a implementação em computador desses mesmos modelos. Na parte final de alguns capítulos serão propostos exercícios práticos.

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