



Hot-Melt Extrusion: Pharmaceutical Applications

Dennis Douroumis

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Hot-melt extrusion (HME) - melting a substance and forcing it through an orifice under controlled conditions to form a new material - is an emerging processing technology in the pharmaceutical industry for the preparation of various dosage forms and drug delivery systems, for example granules and sustained release tablets.

Hot-Melt Extrusion: Pharmaceutical Applications covers the main instrumentation, operation principles and theoretical background of HME. It then focuses on HME drug delivery systems, dosage forms and clinical studies (including pharmacokinetics and bioavailability) of HME products. Finally, the book includes some recent and novel HME applications, scale -up considerations and regulatory issues. Topics covered include:

- principles and die design of single screw extrusion
- twin screw extrusion techniques and practices in the laboratory and on production scale
- HME developments for the pharmaceutical industry
- solubility parameters for prediction of drug/polymer miscibility in HME formulations
- the influence of plasticizers in HME
- applications of polymethacrylate polymers in HME
- HME of ethylcellulose, hypromellose, and polyethylene oxide
- bioadhesion properties of polymeric films produced by HME
- taste masking using HME
- clinical studies, bioavailability and pharmacokinetics of HME products
- injection moulding and HME processing for pharmaceutical materials
- laminar dispersive & distributive mixing with dissolution and applications to HME
- technological considerations related to scale-up of HME processes
- devices and implant systems by HME
- an FDA perspective on HME product and process understanding
- improved process understanding and control of an HME process with near-infrared spectroscopy

Hot-Melt Extrusion: Pharmaceutical Applications is an essential multidisciplinary guide to the emerging pharmaceutical uses of this processing technology for researchers in academia and industry working in drug formulation and delivery, pharmaceutical engineering and processing, and polymers and materials science.

This is the first book from our brand new series *Advances in Pharmaceutical Technology*. Find out more about the series [here](#).

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