Record Nr. UNINA9910815958303321 **Titolo** Injection molding: process, design, and applications / / Phoebe H. Kauffer, editor Pubbl/distr/stampa New York,: Nova Science Publishers, c2011 **ISBN** 1-61761-420-3 Edizione [1st ed.] 1 online resource (304 p.) Descrizione fisica Collana Materials science and technologies Altri autori (Persone) KaufferPhoebe H 668.4/12 Disciplina Soggetti Injection molding of plastics **Plastics** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto ""INJECTION MOLDING: PROCESS, DESIGN AND APPLICATIONS""; ""INJECTION MOLDING: PROCESS, DESIGN AND APPLICATIONS""; ""CONTENTS ""; ""PREFACE""; ""OVERVIEW OF INJECTION MOLDING AS A MANUFACTURING TECHNIQUE FOR PHARMACEUTICAL APPLICATIONS ""; ""ABSTRACT ""; ""1. INTRODUCTION ""; ""2. MATERIALS USED IN INJECTION MOLDING""; ""2.1. Carriers ""; ""2.2. Plasticizers ""; ""2.3. Active Pharmaceutical Ingredients ""; ""3. INJECTION MOLDING APPLICATIONS""; ""3.1 Solid Dispersions""; ""3.2. Oral Controlled Release Drug Delivery Systems ""; ""3.3. Medical Implants ""; ""3.4. Vaginal Rings/Inserts "" ""3.5. Other (Bio)-Medical Applications """"CONCLUSION AND OUTLOOK "": ""REFERENCES "": ""MELT/SOLID WELDLINE IN OVER INJECTION MOLDING: INTERFACIAL CRYSTALLINE STRUCTURES AND ADHESION BETWEEN SEMICRYSTALLINE POLYMER INTERFACES ""; ""INTRODUCTION ""; ""EXPERIMENTAL ""; ""Material""; ""Specimens Preparation ""; ""CHARACTERIZATION ""; ""Polarized Light Microscope (PLM)""; ""Scanning Electron Microscope (SEM) ""; ""Lap Shear Measurement for Interfacial Bonding Strength ""; ""PART I. INTERFACIAL CRYSTALLINE STRUCTURES AND ADHESION BETWEEN SEMICRYSTALLINE POLYMER **INTERFACES** "" "1.1. Morphology Perpendicular to the Flow Direction """1.2.

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