1. Record Nr. UNISALENTO991000618609707536

Autore	Tomasi, Luigi
Titolo	La teoria implicita / Luigi Tomasi
Pubbl/distr/stampa	Milano : Angeli, c1997
ISBN	8846401131
Descrizione fisica	441 p. ; 22 cm.
Collana	La scuola sociologica di Chicago ; 1
Disciplina	301
Soggetti	Sociologia - Studi americani
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibilografia: p. 411-430.

2. Record Nr. UNINA9911004846603321

Autore	Crawford R. J (Roy James), <1949->
Titolo	Rotational molding technology / / Roy J. Crawford, James L. Throne
Pubbl/distr/stampa	Norwich, N.Y., : Plastics Design Library/William Andrew Pub., c2002
ISBN	0-08-094600-3 9786612011474 0-8155-1888-9 1-282-01147-2 1-282-02740-9 0-08-095052-3 0-8155-1893-5
Descrizione fisica	1 online resource (419 p.)
Collana	Plastics Design Library
Altri autori (Persone)	ThroneJames L. <1937->
Disciplina	668.4/12
Soggetti	Rotational molding of 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 indexes.
Nota di contenuto	Front Cover; Rotational Molding Technology; Copyright Page; CONTENTS; CHAPTER 1. INTRODUCTION TO ROTATIONAL MOLDING; 1.0 Introduction; 1.1 The Process; 1.2 The Early Days; 1.3 Materials; 1.4 Advantages and Disadvantages; 1.5 General Relationships between Processing Conditions and Properties; References; CHAPTER 2. ROTATIONAL MOLDING POLYMERS; 2.0 Introduction; 2.1 General Characteristics of Polymers; 2.2 Polymers asPowdersand Liquids; 2.3 Polyethylene Types; 2.4 Polypropylene; 2.5 PVC-Plastisols, Drysols, and Powdered Flexible Compounds; 2.6 Nylons; 2.7 Other Polymers; 2.8 Liquid Polymers 2.9 In-Coming MaterialEvaluation2.10 Product Testing Protocols and Relationship to Polymer Characteristics; 2.11 Desirable Characteristics of a Rotational Molding Resin; References; CHAPTER 3. GRINDING ANDCOLORING; 3.0 Introduction; 3.1 General Issues Relatingto Grinding; 3.2 Particle Size Distribution; 3.3 Particle Shape; 3.4 Dry Flow; 3.5 Bulk Density; 3.6 Factors Affecting Powder Quality; 3.7 Grinding Costs; 3.8 Micropelletizing; 3.9 Polyvinyl Chloride; 3.10 Coloring of Plastics for Rotational Molding; References; CHAPTER 4. ROTATIONAL MOLDING MACHINES; 4.0 Introduction 4.1 Types of Rotational MoldingMachines4.2 Machine Design Considerations; 4.3 The Oven; 4.4 Cooling; 4.5 Process Monitors; 4.6 Servicing; 4.7 Advanced Machine Design; References; CHAPTER 5. MOLD DESIGN; 5.0 Introduction; 5.1 Mold Materials; 5.2 Mechanical and Thermal Characteristics of Mold Materials; 5.3 Mold Design; 5.4 Calculation of Charge Weight; 5.5 Venting; 5.6 Mold Surface Finish; 5.7 Mold Releases; References; CHAPTER 6. PROCESSING; 6.0 Introduction to Heating; 6.1 General Anatomy of the Rotational Molding Cycle; 6.2 General Process Description; 6.3 Powder Behavior 6.4 Characteristics of Powder Flow6.5 Rheology of Powder Flow; 6.6 Heat Transfer Concepts Applied to Rotational Molding; 6.7 Heating the Mold; 6.8 Heating Powder; 6.9 Tack Temperature; 6.10 Mold Cavity Air Heating Prior to Powder Adhesion to Mold Surface; 6.11 Bed Depletion; 6.12 Particle Coalescence; 6.13 Densification; 6.14 Phase Change During Heating; 6.15 The Role of Pressure and Vacuum; 6.16 Mathematical Modeling of the Heating Process; 6.17 Total Oven Cycle Time; 6.18 Cooling and the Optimum Time for Removal from Oven; 6.19 Some Comments on Heat Transfer During Cooling 6.20 Thermal Profile Inversion6.21 Cooling and Recrystallization; 6.22 Air Cooling - Heat Removal Rate; 6.23 Water Cooling - Heat Removal Rate; 6.24 Pressurization; 6.25 Part Removal; 6.26 Effect of Wall Thickness on Cooling Cycle Time; 6.27 Overview and Summary of Thermal Aspects of the Rotational Molding Process; 6.28 Introduction to Liquid Rotational Molding; 6.29 Liquid Polymers; 6.30 Liquid Rotational Molding Process; 6.31 Process Controls for Liquid Rotational Molding; 6.32 Foam Processing; References; CHAPTER 7. MECHANICAL PART DESIGN; 7.0 Introduction; 7.1 Design Philosophy 7.2 General Design Concepts
Sommario/riassunto	This book clarifies and quantifies many of the technical interactions in the process. It distinguishes itself from other books on the subject by being a seamless story of the advanced aspects of the rotational molding process. There are seven chapters within the book. The US market for rotational molding products was one billion pounds in the year 2000. The growth of the rotational molding industry has grown at 10 to 15% per year. With this growth has come an increasing need for details on the complex, technical aspects of the process.