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| 1. Record Nr. | UNINA990002586650403321 |
| Autore | Betz, David Michael |
| Titolo | XLISP-PLUS : Another Object-oriented Lisp. Version 2.1 g / David Michael Betz, Luke Tierney |
| Pubbl/distr/stampa | s.l. : s.e., 1994 |
| Descrizione fisica | 108 p. ; 29 cm |
| Disciplina | 005.3 |
| Locazione | MAS |
| Collocazione | VIII-C-121 |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
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- | | |
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| 2. Record Nr. | UNINA9911006699603321 |
| Autore | Wypych George |
| Titolo | Handbook of Plasticizers |
| Pubbl/distr/stampa | Burlington, : Elsevier Science, 2013 |
| ISBN | 1-62198-759-0
1-4557-3002-5 |
| Edizione | [2nd ed.] |
| Descrizione fisica | 1 online resource (1886 p.) |
| Disciplina | 668.4/11 |
| Soggetti | Plasticizers -- Handbooks, manuals, etc
Plasticizers |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di contenuto | Cover image; Title page; Table of Contents; Copyright; 1. INTRODUCTION; 1.1 HISTORICAL DEVELOPMENTS; 1.2 EXPECTATIONS FROM PLASTICIZERS; 1.3 DEFINITIONS; 1.4 CLASSIFICATION; REFERENCES; 2. PLASTICIZER TYPES; 2.1 INTRODUCTION; 2.2 |

CHARACTERISTIC PROPERTIES OF INDUSTRIAL PLASTICIZERS; 2.3 METHODS OF SYNTHESIS AND THEIR EFFECT ON PROPERTIES OF PLASTICIZERS; 2.4 REACTIVE PLASTICIZERS AND INTERNAL PLASTICIZATION; REFERENCES; 3. TYPICAL METHODS OF QUALITY CONTROL OF PLASTICIZERS; 3.1 ABBREVIATIONS, TERMINOLOGY, AND VOCABULARY; 3.2 ACID NUMBER; 3.3 AGING STUDIES; 3.4 ASH; 3.5 BRITTLINESS TEMPERATURE; 3.6 BROOKFIELD VISCOSITY; 3.7 CHEMICAL RESISTANCE; 3.8 COLOR; 3.9 COMPATIBILITY; 3.10 COMPRESSION SET; 3.11 CONCRETE ADDITIVES; 3.12 ELECTRICAL PROPERTIES; 3.13 EXTRACTABLE MATTER; 3.14 FLASH AND FIRE POINT; 3.15 FOGGING; 3.16 FUSION; 3.17 GAS CHROMATOGRAPHY; 3.18 HARDNESS; 3.19 INFRARED ANALYSIS OF PLASTICIZERS; 3.20 KINEMATIC VISCOSITY; 3.21 MARKING (CLASSIFICATION); 3.22 MELT RHEOLOGY; 3.23 MIGRATION; 3.24 POLY (VINYL CHLORIDE) - STANDARD SPECIFICATION; 3.25 POWDER-MIX TIME; 3.26 PURITY; 3.27 REFRACTIVE INDEX; 3.28 RESIDUAL CONTAMINATION; 3.29 SAMPLING; 3.30 SAPONIFICATION VALUE; 3.31 SAYBOLT VISCOSITY; 3.32 SORPTION OF PLASTICIZER; 3.33 SPECIFIC GRAVITY; 3.34 SPECIFICATION; 3.35 STAINING; 3.36 STIFFNESS; 3.37 TENSILE PROPERTIES; 3.38 THERMAL EXPANSION COEFFICIENT; 3.40 VISCOSITY OF PLASTISOLS AND ORGANOSOLS; 3.41 WATER CONCENTRATION; 3.42 WEIGHT LOSS; REFERENCES; 3.39 UNSAPONIFIABLE CONTENTS; 4. TRANSPORTATION AND STORAGE; 4.1 TRANSPORTATION; 4.2 STORAGE; REFERENCES; 5. MECHANISMS OF PLASTICIZERS ACTION; 5.1 CLASSICAL THEORIES; 5.2 THE FREE VOLUME THEORY; REFERENCES; 6. THEORIES OF COMPATIBILITY; 6.1 COMPATIBILITY CONCEPTS; 6.2 SOLUBILITY PARAMETER AND THE COHESIVE ENERGY DENSITY; 6.3 METHODS OF PLASTICIZER SELECTION BASED ON PRINCIPLES OF COMPATIBILITY; 6.4 PRACTICAL APPROACHES IN USING THEORY OF COMPATIBILITY FOR PLASTICIZERS SELECTION; 6.5 EXPERIMENTAL DATA ILLUSTRATING EFFECT OF COMPATIBILITY ON PLASTICIZED SYSTEMS; REFERENCES; 7. PLASTICIZER MOTION AND DIFFUSION; 7.1 PLASTICIZER DIFFUSION RATE AND THE METHODS OF STUDY; 7.2 PLASTICIZER MOTION AND DISTRIBUTION IN MATRIX; 7.3 PLASTICIZER MIGRATION; 7.4 PLASTICIZER DISTRIBUTION IN MATERIALS IN CONTACT; 7.5 ANTIPLASTICIZATION; 7.6 EFFECT OF DIFFUSION AND MOBILITY OF PLASTICIZERS ON THEIR SUITABILITY; REFERENCES; 8. EFFECT OF PLASTICIZERS ON OTHER COMPONENTS OF FORMULATION; 8.1 PLASTICIZER CONSUMPTION BY FILLERS; 8.2 SOLUBILITY OF ADDITIVES IN PLASTICIZERS; 8.3 ADDITIVE MOLECULAR MOBILITY AND TRANSPORT IN THE PRESENCE OF PLASTICIZERS; 8.4 EFFECT OF PLASTICIZERS ON POLYMERIZATION AND CURING REACTIONS; REFERENCES; 9. PLASTICIZATION STEPS; 9.1 PLASTICIZATION STEPS; 9.2 STUDIES OF PLASTISOL'S BEHAVIOR DURING GELATION AND FUSION; REFERENCES; 10. EFFECT OF PLASTICIZERS ON PROPERTIES OF PLASTICIZED MATERIALS; 10.1 MECHANICAL PROPERTIES

Sommario/riassunto

The second edition of the Handbook of Plasticizers thoroughly reviews information currently available in open literature, such as published scientific papers, information from plasticizer manufacturers, and patent literature. Plasticizers are used in so many products that every library should have this reference source of information on plasticizers readily available for its readers. This book should be used in conjunction with Plasticizer Database, which gives information on the present status and properties of industrial and research plasticizers. The book cov

