

1. Record Nr.	UNINA9910829809603321
Autore	Mildenberg R (Rolf)
Titolo	Hydrocarbon resins // R. Mildenberg, M. Zander, G. Collin
Pubbl/distr/stampa	Weinheim, Germany ; ; New York, New York : , : VCH, A Wiley company, , 1997 ©1997
ISBN	1-281-84257-5 9786611842574 3-527-61465-6 3-527-61464-8
Descrizione fisica	1 online resource (193 p.)
Disciplina	668.37 668/.37
Soggetti	Gums and resins, Synthetic
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	Hydrocarbon Resins; Contents; 1 Terminology; 1.1 Natural Resins; 1.2 Synthetic Resins; 2 Raw Materials for the Manufacture of Resins; 2.1 Indene-Coumarone Resins; 2.2 Petroleum-Based Resins; 2.2.1 Aromatic C9 Hydrocarbon Resins; 2.2.2 Aliphatic C5 Hydrocarbon Resins; 2.2.3 Dicyclopentadiene Resins; 2.3 Resins from Pure Commercial Monomers; 2.4 Polyterpene Resins; 2.5 Polybutene Oligomers; 3 Resin Manufacture; 3.1 Aromatic Hydrocarbon Resins; 3.1.1 Pretreatment of Raw Material; 3.1.2 Polymerization; 3.1.2.1 Batch Polymerization; 3.1.2.2 Continuous Polymerization 3.1.2.3 Cascade Reactor Polymerization 3.1.3 Deactivation; 3.1.4 Intermediate Storage of Neutralized Polymerizates; 3.1.5 Resin Separation from Unreacted Feedstock; 3.2 Manufacture of Resins from Technically Pure Aromatic Monomers; 3.3 Aliphatic C5 Resins; 3.4 Dicyclopentadiene Resins; 3.5 Modified Resins; 3.5.1 In Situ Modification; 3.5.1.1 Styrene-Modified Aromatic Resins; 3.5.1.2 Aliphatic-Modified Aromatic Resins; 3.5.1.3 Terpene-Modified Aromatic Resins; 3.5.1.4 Phenol-Modified Aromatic Resins; 3.5.2 Modification of Finished Resins; 3.5.2.1 Hydrogenated Hydrocarbon

Resins

3.5.2.2 Maleic Anhydride-Modified Resins 3.5.2.3 Rosin-Modified Resins; 3.6 Polyterpene Resins; 3.7 Polybutene Resins; 3.8 Liquid Resins; 3.9 Delivery; 4 Resin Structure and Properties; 4.1 Structure of Hydrocarbon Resins; 4.1.1 Aromatic Resins; 4.1.2 Aliphatic C5 Resins; 4.1.3 Polyterpene Resins; 4.1.4 Dicyclopentadiene Resins; 4.2 Properties and Characterization; 4.2.1 Hardness: Softening Point; 4.2.2 Color; 4.2.3 Unsaturation; 4.2.4 Acid Number; 4.2.5 Saponification Number; 4.2.6 Density; 4.2.7 Ash Content; 4.2.8 Water Content; 4.2.9 Residual Elements; 4.2.10 Glass Transition Temperature 4.2.11 Thermal Stability 4.2.12 Discoloration/Yellowing; 4.2.13 Aging and Stabilization; 4.2.13.1 Antioxidants; 4.2.13.2 Light Stabilizers; 4.2.13.3 Shelf-Life; 4.2.14 Solubility; 4.2.14.1 Cloud Point; 4.2.14.2 Aniline and Mixed Aniline Point; 4.2.15 Compatibility; 4.2.16 Viscosity; 4.2.16.1 Solution Viscosity; 4.2.16.2 Melt Viscosity; 4.2.17 Molecular Mass and Molecular Mass Distribution; 4.2.18 Spectroscopic Data; 4.2.18.1 Infrared Spectroscopy; 4.2.18.2 Ultraviolet Spectroscopy; 4.2.18.3 Nuclear Magnetic Resonance Spectroscopy; 4.3 Summary of Properties of Resins; 5 Applications 5.1 Adhesives 5.1.1 Solvent- and Water-Borne Adhesives; 5.1.1.1 Solvent-Borne Adhesives; 5.1.1.2 Water-Borne Adhesives; 5.1.2 Hot-Melt Adhesives; 5.1.2.1 EVA-Based Hot-Melts; 5.1.2.1.1 Packaging; 5.1.2.1.2 Woodworking; 5.1.2.1.3 Bookbinding; 5.1.2.1.4 Nonwoven Fabrics/Clothing; 5.1.2.1.5 Other Applications; 5.1.2.2 Block Copolymer-Based Hot-Melt Adhesives; 5.1.2.2.1 Diapers; 5.1.2.2.2 Packaging; 5.1.2.2.3 Bookbinding; 5.1.2.3 Polyolefine-Based Hot-Melt Adhesives; 5.1.2.4 Heat Stability of Hot-Melts; 5.1.2.4.1 Influence of the Backbone Polymer; 5.1.2.4.2 Influence of Antioxidants 5.1.2.4.3 Effect of Fillers and Metal Salt Impurities

Sommario/riassunto

For the first time: A comprehensive Overview on Resins! Resins nowadays are still the subject of much interest, with applications in many branches of industrial production. Increasingly stringent specific market requirements and the demand for better quality control and product consistency mean that chemists, engineers, and application technicians are not merely satisfied with the knowledge of the physical data of the basic chemical products they are using. The raw materials, their production processes and special physical and chemical characteristics relevant to their applicatio
