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Titolo	Handbook of thermoset plastics // edited by Hanna Dodiuk, Sidney H. Goodman
Pubbl/distr/stampa	San Diego, CA : , : William Andrew, , 2014
ISBN	1-4557-3109-9
Edizione	[Third edition.]
Descrizione fisica	1 online resource (xxv, 768 pages) : illustrations (some color)
Collana	PDL handbook series Gale eBooks
Disciplina	668.4 668.4/22 668.422
Soggetti	Thermosetting plastics
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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	Front Cover; Handbook of Thermoset Plastics; Copyright Page; Contents; Preface; Acknowledgments; About the Editors; List of Contributors; 1 Introduction; History; Definitions; Cross-Linking and Curing; Influence of Time, Temperature, and Mass; Shelf Life and Pot Life; Curing; Staging; Cross-Link Density; Measuring Cross-Link Density; Stoichiometric Considerations; Prepolymerization and Adducting; References; Further Reading; 2 Phenol-Formaldehydes; Introduction; Phenolic Resins; Raw Materials; Phenol; Cumene Process for Making Phenol; Raschig Process; Dow Process; Formaldehyde (CH <sub>2</sub> O) Hexamethylene Tetramine (Hexamine or "HEXA") (CH <sub>2</sub> ) <sub>6</sub> N <sub>4</sub> Resinification (Production) of Phenol-Formaldehyde Resins; Reaction Chemistry; Polymerization Process; Resole Phenolic Resins; Novolak Phenol-Formaldehyde Resins; Differences Between Resole and Novolak Phenolic Resins; Properties of Phenolic Resins; Fillers for Phenolic Resins; Processing Methods for Phenolic Resins; Applications of Phenolic Resins; Phenolic Resins in Plywood; Other Composite Wood Products; Reactivity and Hardening Reactions of PF Wood Adhesive Resins; Phenolic Resins in Adhesive and Bonding Applications Phenolic Resins as Insulation MaterialsPhenolic Resins in Friction Materials; Bonded and Coated Abrasives; Phenolic Resins in Foundry

and Shell Molding Applications; Shell Molding Process; Cold Box Process; Trends in Foundry and Shell Molding; Phenolic Resins in Laminating Applications; Phenolic Resins in Molding Applications; Phenolic Resins in Coating Applications; Modification of Phenolic Resins; Post-addition of Urea; Co-Condensation Between Phenol and Urea; Addition of Tannins, Lignin, and Isocyanates; Resorcinol Adhesives; Chemistry of RF Resins  
Phenol-Resorcinol- Formaldehyde AdhesivesSpecial Adhesives of Reduced Resorcinol Content; Thermosetting Phenolic Adhesives Based on Natural Resources; References; Further Reading; 3 Polybenzoxazine- new generation phenolics; Introduction; Synthesis of Benzoxazine Monomers (BZ); Ring-Opening Polymerization of Benzoxazines; Regioselectivity and Cross-Linked Structure; Inter/Intramolecular H-Bonding; Kinetics of Thermal Cure; Structure-Property Relationships; Benzoxazines Containing Additional Curable Moieties; Unfunctionalized Polybenzoxazines; Main Chain Polybenzoxazines  
Blends/Composites of PolybenzoxazinesCo-Reactive and Non-Reactive Blends; Fiber and Micro Composites; Nanocomposites of PBZ; Green Chemistry Approaches in PBZ; Click Chemistry in PBZ; Stability and Degradation; Outlook; Acknowledgments; References; 4 Aminos; Introduction; Raw Materials; Urea; Melamine; Chemistry of UF Resins: Urea-Formaldehyde Condensation; Chemistry of MF Resins: Melamine-Formaldehyde Condensation; Mixed Melamine Resins; General Principles of Manufacture and Application; Adhesive and Bonding Resins; Coating Resins; Laminating Resins; Amino Molding Resins Applications of Amino Resins

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## Sommario/riassunto

Thermosetting plastics are a distinct category of plastics whose high performance, durability and reliability at high temperatures makes them suitable for specialty applications ranging from automotive and aerospace through to electronic packaging and consumer products (your melamine kitchen worktop is a thermoset resin!). Recent developments in thermoset plastics technology and processes has broadened their use exponentially over recent years, and these developments continue: in November 2011, French scientists created a new lightweight thermoset that is as strong and stable as previous ma

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2. Record Nr.	UNISA996391328903316
Autore	Henry, King of England, <1491-1547.>
Titolo	Literarum, quibus inuictissimus princeps, Henricus Octauus, Rex Angliae et Franciae, D[omi]n[i]s Hybern[ae], ac Fidei Defensor epistolam Martini Lutheri, ad se missa[m], et ipsius Lutheran[ae] quo[que] epistol[ae] exemplum [[electronic resource]]
Pubbl/distr/stampa	Londini, : In aedibus Pynsonianis, anno Domini millesimo quingentesimo uicesimo septimo, decima Februarij. [1527]
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Livello bibliografico	Monografia
Note generali	In reply to: Luther, Martin. Epistola ad Henricum Octavum Angliae et Franciae regem. Imprint from colophon. "Cum priuilegio a rege indulto." Reproduction of original in: British Library.
Sommario/riassunto	eebo-0018