



# Industrial Applications of Renewable Plastics [ Environmental, Technological, and Economic Advances /

Biron, Michel

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Monografía

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**Título:** Industrial Applications of Renewable Plastics [Recurso electrónico-En línea] Environmental, Technological, and Economic Advances Michel Biron

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**Mención de serie:** Plastics Design Library

**Nota general:** 2.3.2 Traditional Plastics From Bioblocks: Drop-In Solutions Includes index

**Contenido:** 1.1.2.1 Intrinsic Mechanical Properties 1.1.2.2 Specific Mechanical Properties; 1.1.3 Thermal and Electrical Properties; 1.1.4 Durability; 1.1.5 Material Costs; 1.1.5.1 Cost per Weight of Various Materials; 1.1.5.2 Cost per Volume of Various Materials; 1.1.5.3 Performance/Cost per Liter Ratios of Various Materials; 1.2 What Are Thermoplastics, Thermoplastic Elastomer, Thermosets, Composites, and Hybrids?; 1.2.1 Thermoplastics; 1.2.2 Thermoplastic Elastomers; 1.2.3 Thermosets; 1.2.4 Polymer Composites; 1.2.5 Hybrid Materials; 1.3 Plastics: An Answer to the Designer's Main Problems 1.3.1 Economic Requirements 1.3.2 Technical Requirements; 1.3.3 Marketing Requirements; 1.3.4 Sustainability and Environmental Requirements; 1.3.5 Some Weaknesses of Polymer Materials; 1.3.6 Waste Disposal: Recycling; 1.3.7 Beware: Health and Safety Concerns, Regulation Compliance; 1.4 Outline of the Technical and Economic Possibilities of Processing; 1.4.1 Thermoplastic Processing; 1.4.1.1 Molding Solid Thermoplastics; 1.4.1.2 Extrusion and Connected Processes; 1.4.1.3 Calendering; 1.4.1.4 Blow Molding; 1.4.1.5 Molding Liquid Thermoplastics; 1.4.1.6 Secondary Processing 1.4.1.7 Brief Economic Comparison of Some Processing Costs 1.4.1.8 Repair Possibilities: A Significant Thermoplastic Advantage for Large Parts; 1.4.2 Thermoset Processing; 1.4.2.1 Molding Solid Thermosets; 1.4.2.2 Molding the Liquid Thermosets; 1.4.2.3 Secondary Processing; 1.4.3 Composite Processing; 1.4.3.1 Primary Processes; 1.4.3.2 Secondary Processing; 1.4.3.3 Repair Possibilities: A Significant Composite Advantage; 1.4.4 Hybrid Processing;

1.4.5 Additive Manufacturing Techniques for Prototyping and e-Manufacturing; 1.5 The Final Material/Process /Cost Compromise 1.6 Useful Source Examples for Initiation of In-Depth StudiesFurther Reading; Websites; Papers; 2 -- Genesis of Renewable Plastics and Integration in the Plastics Stream; 2.1 Inescapable Strengthening of Environmental Concerns; 2.1.1 Toxicity and Pollution; 2.1.2 The Recycling of Polymers; 2.2 Development of Bioplastics From Renewable Sources; 2.2.1 Development of Biothermoplastics From Renewable Sources; 2.2.2 Development of Biothermosets From Renewable Sources; 2.3 Pros and Cons of Renewable and Oil-Sourced Plastics; 2.3.1 Renewable Plastics Derived From Natural Polymers

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## Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- [informa@baratz.es](mailto:informa@baratz.es)