Hyperbranched Polymers. Synthesis, Properties, and Applications. Wiley Series on Polymer Engineering and Technology

Description: A much-needed overview of the state of the art of hyperbranched polymers

The last two decades have seen a surge of interest in hyperbranched polymers due to their ease of synthesis on a large scale and their promising applications in diverse fields, from medicine to nanotechnology.

Written by leading scientists in academia and industry, this book provides for the first time a comprehensive overview of the topic, bringing together in one complete volume a wealth of information previously available only in articles scattered across the literature. Drawing on their work at the cutting edge of this dynamic area of research, the authors cover everything readers need to know about hyperbranched polymers when designing highly functional materials. Clear, thorough discussions include:

How irregular branching affects polymer properties and their potential applications

Important theoretical basics, plus a useful summary of characterization techniques

How hyperbranched polymers compare with dendrimers as well as linear polymers

Future trends in the synthesis and application of hyperbranched polymers

Geared to novices and experts alike, Hyperbranched Polymers is a must-have resource for anyone working in polymer architectures, polymer engineering, and functional materials. It is also useful for scientists in related fields who need a primer on the synthesis, theory, and applications of hyperbranched polymers.

Contents:

Preface xiii

Contributors xv

1. Promising Dendritic Materials: An Introduction to Hyperbranched Polymers 1

1.1 Importance of Branching 1

1.2 Polymer Architecture 1

1.3 Dendritic Polymers 3

1.4 Hyperbranched Polymers 5

1.5 Conclusions 21

1.6 References 22

2. Polycondensation of ABx Monomers 27

2.1 Introduction 27

2.2 Statistical Consideration 27

2.3 Polymerization of ABx –Type Monomers 30

2.4 References 74

Index 453

Ordering:  
Order Online - [http://www.researchandmarkets.com/reports/2175928/](http://www.researchandmarkets.com/reports/2175928/)

Order by Fax - using the form below

Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct.

- **Product Name:** Hyperbranched Polymers. Synthesis, Properties, and Applications. Wiley Series on Polymer Engineering and Technology
- **Web Address:** http://www.researchandmarkets.com/reports/2175928/
- **Office Code:** SCDKJ67

Product Format
Please select the product format and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hard Copy (Hard Back):</td>
</tr>
</tbody>
</table>

* Shipping/Handling is only charged once per order.

Contact Information
Please enter all the information below in **BLOCK CAPITALS**

- **Title:** Mr □ Mrs □ Dr □ Miss □ Ms □ Prof □
- **First Name:** ___________________________  **Last Name:** ___________________________
- **Email Address:** * ___________________________
- **Job Title:** ___________________________
- **Organisation:** ___________________________
- **Address:** ___________________________
- **City:** ___________________________
- **Postal / Zip Code:** ___________________________
- **Country:** ___________________________
- **Phone Number:** ___________________________
- **Fax Number:** ___________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: _______________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World