

Macromolecular Symposia

Editor-in-chief: Hartwig Hocker

Editors: W. Guth, B. Jung, I. Meisel, S. Spiegel

Symposium Editor: J. Kahovec

135

pp. 1-373

December 1998

© WILEY-VCH

The **tables of contents** of the published issues are displayed on the www.

This service as well as further information on our journals can be found at the following www address:

<http://www.wiley-vch.de/home/macrosymp>

The service is free for everybody.

Contents of Macromol. Symp. 135

IUPAC 38th Microsymposium on Recycling of Polymers, Prague, Czech Republic 1997

Preface

N. M. Bikales

1. Recycling of cheap packaging waste versus expensive engineering materials. 1
*S. Karlsson, A.-C. Albertsson**
2. Catalytic degradation of polyethylene and polypropylene to fuel oil 7
Y. Sakata
3. Co-pyrolysis of waste polymers with coal. **19**
*P. Straka, J. Buchtele, J. Kovdfovd**
4. New approach to recycling of thermosets. 25
J. E. Kresta, H. X. Xiao, B. Suthar, X. H. Li, S. P. Sun, D. Klemper*
5. Stepwise pyrolysis for recycling of plastic mixtures. 35
H. Bockhorn, A. Hornung, U. Hornung*
6. Integrated waste management - A pragmatic, by case-by-case approach optimizing recycling and energy recovery. 43
D. Birkle
7. Recycling of mixed automotive plastics. 55
R. D. Deanin, C. M. Barry, S. Woramongonchai, S. C. Parikh
8. Technical methods in plastics pyrolysis. 63
A. G. Buekens, J. G. Schoeters*
9. Polymer recycling - Status and perspectives. 83
W. Michaeli, K. Breyer

10. Innovative concept for the upgrading of recyclates by restabilization and repair molecules.	97
<i>R. Pfaendner*, H. Herbst, K. Hoffmann</i>	
11. Polymer cracking - New hydrocarbons from old plastics.	113
<i>S. Hardman, D. C. Wilson</i>	
12. Recycled injection-molded and fibre-reinforced polyethylene/polypropylene.	121
<i>B. Riedl</i>	
13. Recycling technology of poly(ethylene terephthalate) materials.	129
<i>C. C. Lin</i>	
14. New trends in chemical recycling of poly(ethylene terephthalate).	137
<i>T. Szychaj*, D. Paszun</i>	
15. Recycling of polymeric composites.	147
<i>T. Mang*, F Haulena</i>	
16. The role of additives in the recycling of polymers.	157
<i>F. P. La Mantia</i>	
17. The influence of recycling on the properties of wood fibre-plastic composites.	167
<i>J. J. Balatinecz*, M. M. Sain</i>	
18. New chemical recycling methodologies: Hydrous pyrolysis to recover monomers from polyolefins.	175
<i>G. Audisio*, F. Bertini, P. L. Beltrame, L. Bergamasco, A. Castelli</i>	
19. Quality assurance of recycled engineering plastics using blend technology.	183
<i>C. Klason*, H. Bertilsson, X. Liu</i>	
20. Biodegradable materials - Present situation and future perspectives	193
<i>C. Bastioli</i>	
21. Conversion of polymers and biomass to chemical intermediates with supercritical water.	205
<i>K. Ami</i>	
22. Degradability of biodegradable plastics under controlled composting conditions.	215
<i>K. Nakasaki</i>	
23. Ecological and economical aspects of polymer recycling.	223
<i>J. Brandrup</i>	
24. Chlorinated products of plastic pyrolysis.	237
<i>M. Blazso</i>	

25. The origin and role of structural inhomogeneities and impurities in material recycling of plastics.	247
<i>J. Pospisil*, Z. Hordk, Z. Krulis, S. Nespurek</i>	
26. Approaches to deal with the issue of plastic packages and the environment	265
<i>J. Miltz</i>	
27. Food pollution by bilayer package with a recycled polymer: effect of some parameters.	277
<i>5. Laoubi, J. M. Vergnaud*, B. Mouffok</i>	

Addendum: Papers from the IUPAC Working Party on Recycling of Polymers, Prague, July 1997

28. Final report of the IUPAC working party on recycling of polymers	287
<i>N. M. Bikales</i>	
29. Polymer recycling: Thermodynamics and economics.	295
<i>R. S. Stein</i>	
30. Collection of post-consumer plastics for recycling	315
<i>M. M. Fisher, R. N. Liesemer</i>	
31. Rubber recycling	327
<i>H. Schnecko</i>	
32. Plastics recycling: An Australian overview.	345
<i>R. W. Truss, J. H. O'Donnell</i>	
33. Energy recovery.	359
<i>T. Akehata</i>	

Subscription Order Form

* The asterisk indicates the name of the author to whom inquiries should be addressed.