研究简报

可自交联超支化聚醚醚酮的合成与热性能研究

牟建新,马晓野,张春玲,吴伟春,陈杰,姜振华 吉林大学化学学院;吉林大学材料科学与工程学院;吉林大学化学学院 长春 收稿日期 2005-5-8 修回日期 2005-7-4 网络版发布日期 接受日期

摘要

关键词 超支化聚醚醚酮 交联 封端法

分类号

SYNTHESIS AND THERMAL PROPERTIES OF SELF CROSS-LINKING HYPERBRANCHED POLY(ETHER ETHER KETONNE)

MU Jianxin¹,MA Xiaoye¹,ZHANG Chunling²,WU Weichun¹,CHEN Jie¹,JIANG Zhenhua¹

1 College of Chemistry; 2 College of Materials Science and Engineering; Jilin University; Changchun 130012

Abstract Fluoro-terminated hyperbranched poly(aryl ether ketone)(HPOP—PEEK—F) with 4-phenoxyphenyl side groups was prepared from A₂(2-(4-phenoxyphenyl)-1,4-diphend) and B₃(1,3,5-tris[4-(4-flourobenzoyl) phenoxy]benzene) with a function group ratio of 0. 48: 1(A₂: B₃). The chemical structure of HPOP-PEEK—F was confirmed by FTIR and H-NMR. The degree of branching(DB) of HPOP-PEEK—F was 0. 66 determined by H-NMR measurements. The phenyl ethynyl-terminated hyperbranched poly(ether ether ketone)(HPOP—PEEK-PEP) was prepared by the end—capping approach. The HPOP—PEEK—PEP showed high glass transition temperature than HPOP-PEEK-F,but exhibited lower thermal stability. After cross—linking,the glass transition temperature,thermal stability and anti-chemical eorrodibility of HPOP—PEEK—PEP were all improved.

Key words Hyperbranched poly (ether ether ketone) s Cross-linking Phenyl ethynyl End-capping approach

DOI:

扩展功能

本文信息

- ▶ Supporting info
- ▶ **PDF**(221KB)
- ▶[HTML全文](0KB)
- ▶参考文献

服务与反馈

- ▶把本文推荐给朋友
- ▶加入我的书架
- ▶加入引用管理器
- ▶复制索引
- ▶ Email Alert
- ▶ 文章反馈
- ▶浏览反馈信息

相关信息

▶<u>本刊中 包含"超支化聚醚醚酮"的</u> 相关文章

▶本文作者相关文章

- 牟建新
- · <u>马晓野</u>
- · <u>张</u>春玲
- 吴伟春
- · <u>陈杰</u>
- 姜振华

通讯作者 姜振华