研究简报

双邻位甲基侧基聚芳醚酮醚酮酮/聚芳醚醚酮酮的合成与表征 刘勇军, 宋才生, 付长清, 叶尚辉

江西师范大学化学化工学院; 江西师范大学化学化工学院 南昌 收稿日期 2004-10-8 修回日期 2004-12-1 网络版发布日期 接受日期

摘要

关键词 <u>1</u> 4-二苯氧基苯 <u>4</u> 4'-二(2 6-二甲基苯氧基)二苯酮 <u>PEEKK</u> 缩聚

分类号

SYNTHESIS AND CHARACTERIZATION OF POLY(ARYL ETHER ETHER KETONE KETONE)/POLY(AR YL ETHER KETONE ETHER KETONE KETONE) CONTAINING BIS(o-METHYL) MOIETY

LIU Yongjun, SONG Caisheng, FU Changqing, YE Shanghui

Department of Chemistry; Jiangxi Normal University; Nanchang 330027

Abstract Poly (aryl ether ether ketone ketone) (PEEKK) is a kind important high-performance polymers due to their excellent thermal stability and other outstanding properties similar to PEEK and PEKK. However,the PEEKK'Sinsolubility in common solutions and high melt point restrict its processing and applications. In this paper,a series of random eopolymers composed of poly(aryl ether ether ketone ketone)(PEEKK)/poly(aryl ether ketone ether ketone ketone) containing bis(o-metheyl) moiety (DM-PEKEKK) were prepared by low temperature solution polyeondensation of 4,4'-bis(2,6-dimethylphenoxy) diphenylketone (o-M2DPOBP),1,4-dipheoxylbenzene(DPB) and terephthaloyl ehlorde(TPC) in 1,2-diehloroethane with the presence of AlCl3 and DMF. The copolymers were characterized by FT-IR,DSC,WAXD,TGA,etc. The results show that glass transition temperature increases greatly with the increasing of the ratio of o-M2DPOBP/DPB, while melting temperature and erystallinity of copolymers decrease. The solubility of the eopolymers is improved greatly, while the eopolymers still exhibit excellent thermostability.

Key words <u>dipheoxylbenzene</u> <u>4</u> <u>4'-Bis (2</u> <u>6-dimethylphenox y) diphenylketone</u> <u>PEEKK</u> <u>Polycondensation</u>

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通讯作者 宋才生