

研究简报

溶剂性能对部分解缠结聚氯乙烯有序结构形成的影响

刘远立, 朱平平, 杨海洋, 吴福贵, 何平笙

中国科学技术大学高分子科学与工程系; 中国科学技术大学高分子科学与工程系 合肥

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摘要

关键词 [解缠结](#) [溶剂性能](#) [聚氯乙烯](#) [有序结构](#)

分类号

INFLUENCE OF SOLVENT UPON THE FORMATION OF ORDERED STRUCTURE IN PARTIALLY DISENTANGLED POLY(VINYL CHLORIDE)

LIU Yuanli,ZHU Pingping,YANG Haiyang,WU Fugui,HE Pingsheng

Department of Polymer Science and Engineering; University of Science and Technology of China; Hefei 230026

Abstract The partially disentangled polymer samples prepared are expected to crystallize easier than bulk polymers, which can be attributed to much fewer interchain entanglements within and between particles. Poly(vinyl chloride)(PVC)samples were prepared by freeze—extracting the solutions in various solvents and with vatting concentrations The results of FTIR analysis showed that when the concentrations of the solutions were lower than the overlap concentration C^* , the PVC samples prepared from the good solvent had mole ordered structure due to much fewer interchain entanglements. While the concentrations of the solutions were higher than c^* . the PVC samples prepared from the bad solvents had more ordered structure.

Key words [Disentanglement](#) [Solvent nature](#) [Poly \(vinyl chloride\)](#) (PVC) [Orderly structure](#)

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通讯作者 朱平平

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