

材料科学与工程

## 醋酸乙烯与双环戊二烯顺丁烯二酸单酯的共聚

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摘要

关键词 [乳液聚合](#); [醋酸乙烯](#); [双环戊二烯](#); [双环戊二烯顺丁烯二酸单酯](#)

分类号

## Co-polymerization of vinyl acetate and DHCM

### Abstract

By using dicyclopentadiene reacting with maleic acid, dicyclopentadiene maleate (DHCM) was synthesized and its structure was characterized with IR and NMR spectrum. The co-polymerization of vinyl acetate and DHCM was studied at 70°C. The structure and particle morphology of the co-polymer were characterized with IR and TEM. The effects of DHCM content on the monomer conversion and average particle size were investigated. The results showed that when DHCM content was 2% (mass), the synthesized latex was of high conversion efficiency, small particle size and good stability.

**Key words** [emulsion polymerization](#); [vinyl acetate](#); [dicyclopentadiene](#); [dicyclopentadiene maleate](#)

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