研究简报

V-辐照乙烯-辛烯共聚物的固体核磁¹³C谱研究

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摘要

关键词 γ辐射 乙烯-辛烯共聚物 固体核磁¹³C谱 降解

分类号

SOLID STATE ¹³C-NMR STUDY OF γ-IRRADIATED POE

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Abstract Ethylene-octene copolymer(POE)samples exposed to γ —radiation under a series doses were investigated using solid state 13 C-NMR. The chemical shifts of POE were assigned, and the peak evolution as a function of radiation dose was discussed. An obviously chain seission was found near the branch carbons, and the 13 C—NMR spectra of the corresponding gels confirmed the result. Linewidths of irradiated POE samples of various absorbed doses were observed to which were related to the molecular mobility of the radiation-crosslinked polymer.

Key words Ethylene-octene copolymer (POE) γ-Radiation Solid-state 13C-NMR Degradation

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