

Studies on photooxidation of LLDPE and HDPE blends. Amin, M. B.; Hamid, S. H.; Maadhah, A. G.; Al-Jarallah, A. M. Res. Inst., King Fahd Univ. Pet. Miner, Dhahran, Saudi Arabia. *Polymeric Materials Science and Engineering* (1992), 67 397-8. CODEN: PMSEGD ISSN: 0743-0515. Journal written in English. CAN 118:39856 AN 1993:39856 CAPLUS (Copyright (C) 2008 ACS on SciFinder (R))

Abstract

The degradability of polyethylene is tested in 5 different climatic regions located in Saudi Arabia. During photooxidn. of the polymer blend, chain branching reactions occur. The alkyl macroradicals formed during the irradiation causes both chain branching and chain scission with branching predominant in HDPE. The melting and crystallinity behavior of LLDPE-HDPE blends indicate consistent behavior during photooxidation.