

Studies on photooxidation of LLDPE and HDPE blends.

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Polymeric Materials Science and Engineering (1992), 67 397-8.

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 crystallization behavior of LLDPE-HDPE blends indicate consistent behavior during photooxidation.