

Title (en)

PROCESS FOR MAKING FLAME RETARDANT GRAFTED OLEFIN POLYMERS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON FLAMMWIDRIGEN OLEFINPFROPFPOLYMEREN

Title (fr)

PROCEDE DE FABRICATION DE POLYMERES OLEFINIQUES GREFFES IGNIFUGES

Publication

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Application

EP 05739848 A 20050517

Priority

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Abstract (en)

[origin: WO2005116096A1] A process for making a radiation initiated flame retardant grafted olefin polymer comprises: a) irradiating an olefin polymer material (A) at a temperature from about 10 <°>C to about 85 <°>C with high-energy ionizing radiation to produce free radical initiating site on the backbone of the polymer material; b) treating the irradiated olefin polymer material at a first temperature up to about 100 <°>C with about 5 to 50 percent by weight of at least one polymerizable flame retardant in the presence of a controlled amount of oxygen, and then maintaining the polymer material at a second temperature from 25°C to a temperature below the softening point of the polymer material, thereby forming a polymer mixture; c) heating the polymer mixture obtained in step b) at a temperature above the melting point of the polymer mixture, thereby producing a graft polymer melt.

IPC 8 full level

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