

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

**EP 1753795 A1 20070221 (EN)**

Application

**EP 05739848 A 20050517**

Priority

- IB 2005051605 W 20050517
- US 57563904 P 20040528

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

**C08F 291/18** (2006.01); **C08F 8/06** (2006.01); **C08F 255/02** (2006.01); **C08J 7/18** (2006.01)

CPC (source: EP)

**C08F 291/18** (2013.01); **C08J 7/18** (2013.01); **C08F 2810/10** (2013.01)

Citation (search report)

See references of WO 2005116096A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2005116096 A1 20051208**; EP 1753795 A1 20070221; JP 2008501058 A 20080117

DOCDB simple family (application)

**IB 2005051605 W 20050517**; EP 05739848 A 20050517; JP 2007514238 A 20050517