

Title (en)  
GRAFTED ETHYLENE COPOLYMERS

Title (de)  
GEPFROPFTE ETHYLENCOPOLYMERE

Title (fr)  
COPOLYMERES D'ETHYLENE GREFFES

Publication  
**EP 0968235 A1 20000105 (EN)**

Application  
**EP 98911905 A 19980319**

Priority  
• US 9805552 W 19980319  
• US 82183897 A 19970321

Abstract (en)  
[origin: WO9842760A1] This invention relates to a grafted ethylene copolymer comprising ethylene and an alpha-olefin grafted with 0.1 weight % or more of an unsaturated acid or anhydride wherein the copolymer prior to grafting is characterized by: 1) a vinylidene to vinyl end chain unsaturation ratio of 3 or less, and 2) a CDBI of 60 % or more or was produced using one or more mono- or bis- cyclopentadienyl transition metal catalysts in combination with an activator of alumoxane and/or a non-coordinating anion, and the grafted copolymer is characterized by a number of unsaturated acid or anhydride molecules per chain of 2 or more as calculated according to the following formula:  $[Mn <^* > UAA(wt\%)]/[UAA(Mw)]$  wherein Mn is the number average molecular weight as measured by GPC, UAA(wt.%) is the weight percent of the unsaturated acid or anhydride as measured by FTIR spectroscopy and UAA(Mw) is the molecular weight of the unsaturated acid or anhydride.

IPC 1-7  
**C08F 255/02**; **C08F 290/04**

IPC 8 full level  
**C08F 255/00** (2006.01); **C08F 8/46** (2006.01); **C08F 255/02** (2006.01); **C08F 290/04** (2006.01); **C08L 51/06** (2006.01)

CPC (source: EP KR)  
**C08F 4/65908** (2013.01 - KR); **C08F 4/65912** (2013.01 - KR); **C08F 4/6592** (2013.01 - KR); **C08F 222/06** (2013.01 - KR);  
**C08F 255/02** (2013.01 - EP KR); **C08F 290/042** (2013.01 - EP); **C08L 51/06** (2013.01 - EP)

Citation (search report)  
See references of WO 9842760A1

Designated contracting state (EPC)  
DE FR GB IT NL

DOCDB simple family (publication)  
**WO 9842760 A1 19981001**; AU 6575398 A 19981020; BR 9808027 A 20000308; EP 0968235 A1 20000105; JP 2001518137 A 20011009;  
KR 20010005528 A 20010115

DOCDB simple family (application)  
**US 9805552 W 19980319**; AU 6575398 A 19980319; BR 9808027 A 19980319; EP 98911905 A 19980319; JP 54583998 A 19980319;  
KR 19997008587 A 19990920