

Title (en)
PAINTABLE POLYETHYLENES.

Title (de)
FÄRBBARE POLYETHYLENE.

Title (fr)
POLYETHYLENES POUVANT ETRE PEINTS.

Publication
EP 0643742 A1 19950322 (EN)

Application
EP 93914397 A 19930604

Priority
• US 9305363 W 19930604
• US 89387592 A 19920605

Abstract (en)
[origin: WO9325617A2] Paintable, thermoplastic polymer blends are prepared from (A) at least about 50 weight percent polyethylene, for example, high density polyethylene (HDPE), grafted with at least about 0.01 weight percent of an unsaturated organic compound, for example, maleic anhydride, and (B) a thermoplastic polymer containing polar groups, for example, a polyurethane or a polyester. Optionally, the grafted polyethylene of (A) can be diluted with an ungrafted polyethylene, for example, ungrafted HDPE. These blends can be molded into various structural components, for example, automobile parts, and can be painted without the use of either a primer or a preliminary surface treatment, for example, chemical etching. The polyethylene blends also demonstrate excellent adhesion to various rigid polyurethane foams.

IPC 1-7
C08L 51/06; **C08L 23/04**

IPC 8 full level
B32B 27/08 (2006.01); **C08L 23/08** (2006.01); **C08L 23/26** (2006.01); **C08L 29/04** (2006.01); **C08L 33/04** (2006.01); **C08L 51/00** (2006.01); **C08L 51/06** (2006.01)

CPC (source: EP US)
B32B 5/18 (2013.01 - US); **B32B 27/065** (2013.01 - US); **B32B 27/08** (2013.01 - EP US); **B32B 27/32** (2013.01 - US); **C08L 51/06** (2013.01 - EP); **B32B 2398/20** (2013.01 - US); **B32B 2605/08** (2013.01 - US)

Citation (search report)
See references of WO 9325617A2

Cited by
US8124234B2; US8404780B2

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9325617 A2 19931223; **WO 9325617 A3 19940317**; CA 2137283 A1 19931223; EP 0643742 A1 19950322; JP H07507590 A 19950824

DOCDB simple family (application)
US 9305363 W 19930604; CA 2137283 A 19930604; EP 93914397 A 19930604; JP 50161693 A 19930604