

Title (en)  
PROCESS FOR PREPARING A MULTI-LAYER ARTICLE HAVING A FLUOROPLASTIC LAYER AND AN ELASTOMER LAYER

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINES MEHRSCHTIGEN GEGENSTANDES MIT EINER FLUOROPLASTISCHEN SCHICHT UND EINER ELASTOMERSCHICHT

Title (fr)  
PROCEDE DE PREPARATION D'UN ARTICLE MULTICOUCHES POSSEDANT UNE COUCHE DE PLASTIQUE FLUORE ET UNE COUCHE D'ELASTOMERE

Publication  
**EP 1311381 A1 20030521 (EN)**

Application  
**EP 01959657 A 20010808**

Priority  
• US 0124867 W 20010808  
• US 64473100 A 20000823

Abstract (en)  
[origin: WO0216112A1] A method for enhancing the bond strength between a VDF-containing fluoroplastic layer and an elastomer layer of a multi-layer article. A VDF-containing fluoroplastic composition is applied to the surface of a precursor article that includes a curable elastomer layer to form a fluoroplastic layer. Prior to application of the fluoroplastic composition, the curable elastomer layer is thermally insulated to prevent it from undergoing substantial heating. Following application, the fluoroplastic layer is heated and the curable elastomer layer is cured (e.g., thermally cured). Preferably, the elastomer cure occurs separately from and subsequent to heating the fluoroplastic layer. The combination of thermally insulating the curable elastomer layer prior to application of the fluoroplastic composition and heating the fluoroplastic layer following application of the fluoroplastic composition results in formation of a strong bond between the fluoroplastic and elastomer layers upon cure.

IPC 1-7  
**B29C 47/06**; B32B 1/08; B32B 27/08; F16L 9/12; F16L 11/04

IPC 8 full level  
**B29C 48/06** (2019.01); **B32B 1/08** (2006.01); **B32B 25/14** (2006.01); **B32B 27/08** (2006.01); **F16L 11/04** (2006.01); **B29K 27/12** (2006.01); **B29K 105/20** (2006.01)

CPC (source: EP KR US)  
**B29C 48/0016** (2019.02 - EP US); **B29C 48/022** (2019.02 - EP US); **B29C 48/06** (2019.02 - EP US); **B29C 48/09** (2019.02 - EP US); **B29C 48/154** (2019.02 - EP US); **B29C 48/18** (2019.02 - KR); **B29C 48/21** (2019.02 - EP US); **B29C 48/304** (2019.02 - EP US); **B32B 1/08** (2013.01 - EP); **B32B 25/14** (2013.01 - EP); **B32B 27/08** (2013.01 - EP); **F16L 11/04** (2013.01 - EP US); **B29K 2027/12** (2013.01 - EP); **B29K 2027/18** (2013.01 - EP); **F16L 2011/047** (2013.01 - EP)

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

DOCDB simple family (publication)  
**WO 0216112 A1 20020228**; AU 2585701 A 20020304; AU 8118801 A 20020304; CA 2418110 A1 20020228; CN 1220578 C 20050928; CN 1447743 A 20031008; EP 1311381 A1 20030521; JP 2004506548 A 20040304; KR 100773306 B1 20071106; KR 20030027057 A 20030403; RU 2286878 C2 20061110; WO 0216111 A1 20020228

DOCDB simple family (application)  
**US 0124867 W 20010808**; AU 2585701 A 20001220; AU 8118801 A 20010808; CA 2418110 A 20010808; CN 01814428 A 20010808; EP 01959657 A 20010808; JP 2002521014 A 20010808; KR 20037002508 A 20030221; RU 2003104012 A 20010808; US 0034718 W 20001220