

Title (en)  
LAMINATED COMPOSITE MATERIAL AND METHOD FOR THE PRODUCTION THEREOF

Title (de)  
SCHICHTVERBUNDATERIAL UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)  
MATERIAU COMPOSITE STRATIFIE ET PROCEDE DE PRODUCTION DUDIT MATERIAU

Publication  
**EP 1409243 A1 20040421 (DE)**

Application  
**EP 02790178 A 20020716**

Priority  
• DE 10136125 A 20010726  
• EP 0207898 W 20020716

Abstract (en)  
[origin: WO03010000A1] The invention relates to a laminated composite material comprising at least: a) one polyolefinic supporting layer; b) one intermediate layer, which is situated on the supporting layer and contains at least one thermoplastic polymer material; c) one heat-hardened layer that is situated on the intermediate layer, and; d) a top layer, which is situated on the heat-hardened layer and made of a thermoplastic material. The thermoplastic material in the top layer is selected from the group consisting of polycarbonates, acrylic butadiene styrene copolymers, poly(butylene)-terephthalates, polyester and derivatives and mixtures thereof. The laminated composite material can be excellently used for producing three-dimensional shaped parts in the electrical industry, construction industry or the automotive industry with very good detail reproduction and excellent surface properties.

IPC 1-7  
**B32B 15/08**; **B44C 5/04**; **B32B 27/10**; **B32B 27/08**

IPC 8 full level  
**B29C 70/08** (2006.01); **B32B 27/00** (2006.01); **B32B 27/08** (2006.01); **B32B 27/12** (2006.01); **B32B 27/32** (2006.01); **B44C 5/04** (2006.01); **B32B 38/12** (2006.01)

CPC (source: EP US)  
**B29C 70/086** (2013.01 - EP US); **B32B 5/022** (2013.01 - US); **B32B 5/024** (2013.01 - US); **B32B 27/08** (2013.01 - EP US); **B32B 27/10** (2013.01 - US); **B32B 27/12** (2013.01 - EP US); **B32B 27/18** (2013.01 - US); **B32B 27/20** (2013.01 - US); **B32B 27/308** (2013.01 - US); **B32B 27/32** (2013.01 - US); **B32B 27/365** (2013.01 - US); **B32B 27/42** (2013.01 - US); **B32B 38/12** (2013.01 - EP US); **B32B 38/145** (2013.01 - EP US); **B44C 5/04** (2013.01 - EP US); **B44C 5/0446** (2013.01 - EP US); **B32B 2038/0076** (2013.01 - US); **B32B 2038/0092** (2013.01 - EP US); **B32B 2307/412** (2013.01 - EP US); **B32B 2307/558** (2013.01 - EP US); **B32B 2307/71** (2013.01 - EP US); **B32B 2317/125** (2013.01 - US); **B32B 2323/00** (2013.01 - EP US); **B32B 2323/04** (2013.01 - US); **B32B 2323/10** (2013.01 - US); **B32B 2355/02** (2013.01 - US); **B32B 2367/00** (2013.01 - US); **B32B 2369/00** (2013.01 - EP US); **B32B 2605/00** (2013.01 - US); **Y10T 428/31507** (2015.04 - EP US)

Citation (search report)  
See references of WO 03010000A1

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

DOCDB simple family (publication)  
**WO 03010000 A1 20030206**; DE 10136125 A1 20030213; EP 1409243 A1 20040421; JP 2004535320 A 20041125; PL 367045 A1 20050221; US 2004161611 A1 20040819

DOCDB simple family (application)  
**EP 0207898 W 20020716**; DE 10136125 A 20010726; EP 02790178 A 20020716; JP 2003515378 A 20020716; PL 36704502 A 20020716; US 48414904 A 20040120