

Title (en)
PREPREG

Title (de)
VORIMPRÄGNAT

Title (fr)
PREIMPREGNE

Publication
EP 1518024 B1 20060830 (DE)

Application
EP 04710840 A 20040213

Priority
• DE 10307966 A 20030224
• EP 2004001393 W 20040213

Abstract (en)
[origin: WO2004074577A1] Disclosed are prepregs which can be obtained by impregnating a raw paper with a thermally crosslinkable impregnation combination, and methods for the production thereof. The impregnation combination contains a thermally crosslinkable, formaldehyde-free resin solution and a polymer dispersion. The mixing ratio between the resin solution and the polymer dispersion in the impregnation combination ranges between 45:55 and 10:90 (solid:solid). After drying, the prepreg has a degree of crosslinking of no less than 10 percent but no more than 85 percent and a residual moisture of 2 to 3 percent by weight. The inventive prepregs are provided with better properties than previously known formaldehyde-containing and formaldehyde-free prepregs regarding printability and surface bonding strength (ripping resistance) as early as the moment the prepregs leave the paper machine while maintaining great surface density (great ability to receive lacquer) and dimensional stability/flatness.

IPC 8 full level
D21H 27/26 (2006.01); **D21H 17/70** (2006.01); **D21H 25/06** (2006.01)

CPC (source: EP)
D21H 27/26 (2013.01); **D21H 17/70** (2013.01); **D21H 25/06** (2013.01)

Cited by
DE102013114420A1

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

DOCDB simple family (publication)
WO 2004074577 A1 20040902; AT E338167 T1 20060915; BR PI0407760 A 20061003; BR PI0407760 B1 20140422; CA 2518942 A1 20040902; CA 2518942 C 20140805; DE 10307966 A1 20040909; DE 10307966 B4 20050811; DE 10307966 C5 20090528; DE 502004001322 D1 20061012; EP 1518024 A1 20050330; EP 1518024 B1 20060830; EP 1518024 B2 20130807; EP 1757731 A2 20070228; EP 1757731 A3 20121205; ES 2271845 T3 20070416; ES 2271845 T5 20131122

DOCDB simple family (application)
EP 2004001393 W 20040213; AT 04710840 T 20040213; BR PI0407760 A 20040213; CA 2518942 A 20040213; DE 10307966 A 20030224; DE 502004001322 T 20040213; EP 04710840 A 20040213; EP 06119238 A 20040213; ES 04710840 T 20040213