Title (en)
    Prepreg

Title (de)
    Vorimprägnat

Title (fr)
    Pré-imprégné

Publication
    EP 1757731 A3 20121205 (DE)

Application
    EP 06119238 A 20040213

Priority
    • EP 04710840 A 20040213
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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)

Citation (search report)
    • [AD] DE 10134302 C1 20021212 - TECHNOCELL DEKOR GMBH & CO KG [DE], et al
    • [A] DE 19728250 A1 19990107 - KOEHLER DECOR GMBH & CO KG [DE]
    • [A] WO 9517551 A1 19950629 - ARJO WIGGINS SA [FR], et al
    • [A] WO 9400523 A1 19940106 - BUHL PAPIERFABRIKEN GMBH GEB [DE], et al

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    DE102013114420A1; WO2009077561A1

Designated contracting state (EPC)
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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;
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