

Title (en)
LAMINATED GLASS WITH POLYSILOXANE-UREA COPOLYMER

Title (de)
LAMINATGLAS MIT POLYSILOXAN-HARNSTOFF-COPOLYMER

Title (fr)
VERRE FEUILLETE COMPRENANT UN COPOLYMERE D'UREE ET DE POLYSILOXANE

Publication
EP 1610947 A1 20060104 (DE)

Application
EP 04725012 A 20040401

Priority
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Abstract (en)
[origin: DE10316521B3] A novel form of laminated glass consists of layer(s) of inorganic or organic glass and layer(s) of a polysiloxane-urea copolymer (A), obtained by reacting a mixture of linear polysiloxanes of formula (I) and branched polysiloxanes (II), containing terminal amino and hydroxy group in a ratio such that the ratio of urea to urethane groups in (A) is at least 4:1, with polyfunctional isocyanates (III). A novel form of laminated glass consists of at least one layer of inorganic or organic glass and at least one layer of a polysiloxane-urea copolymer (A), obtained by reacting a mixture of linear polysiloxanes of formula Q-T-Si(R)2-O-(Si(R)2-O)n-Si(R)2-T-Q (I) and branched polysiloxanes of formula (Q-T-Si(R)2O1/2)a(Q-T-Si(R)O2/2)b(Q-T-SiO3/2)c((R)3SiO1/2)d((R)2SiO2/2)e(RSiO3/2)f(SiO4/2)g (II) with polyfunctional isocyanates (III). Q : NHR1> or OH; T : 1-20C hydrocarbylene, optionally having non-adjacent CH2 units replaced by NR6> or O; R : 1-20C hydrocarbyl, optionally substituted by F, Cl or CN; R1>H or as for R; R6>H or 1-6C hydrocarbyl, optionally substituted by F, Cl or CN; n : 0-1000; a - g : 0 or integer; b + c + f + g : at least 1; a + b + c : at least 2; provided the ratio of NHR1> to OH groups as Q is such that the ratio of urea to urethane groups in (A) is at least 4:1. An independent claim is included for the preparation of the laminated glass.

IPC 1-7
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IPC 8 full level
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