

Title (en)

SPECIAL POLYMER LAYERS FOR FASTER LAMINABILITY OF MULTILAYER STRUCTURES

Title (de)

SPEZIELLE POLYMERSCHICHTEN ZUR SCHNELLEREN LAMINIERBARKEIT VON MEHRSCHICHTAUFBAUTEN

Title (fr)

COUCHES POLYMÈRES SPÉCIALES PERMETTANT LA STRATIFICATION PLUS RAPIDE DE STRUCTURES MULTICOUCHES

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Application

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Abstract (en)

[origin: WO2023285356A1] The invention relates to a multilayer structure (MS) comprising (SI) at least one first polymer layer (SI) comprising $\geq 95\%$ by weight, preferably $\geq 98\%$ by weight, particularly preferably $\geq 99\%$ by weight, based on the total weight of the polymer layer (SI), of a polymer (PI) selected from the group consisting of a polycarbonate, a co-polycarbonate or mixtures thereof having a Vicat softening temperature $\geq 149^{\circ}\text{C}$, preferably $\geq 160^{\circ}\text{C}$, further preferably $\geq 170^{\circ}\text{C}$; more preferably $\geq 180^{\circ}\text{C}$, determined according to ISO 306:2004 (50N; $50^{\circ}/\text{h}$); (S2) at least one further polymer layer (S2) having a Vicat softening temperature $< 149^{\circ}\text{C}$, preferably $\leq 140^{\circ}\text{C}$, more preferably $\leq 130^{\circ}\text{C}$, determined according to ISO 306:2004 (50N; $50^{\circ}/\text{h}$), preferably in a range from 120°C to 148°C ; (S3) optionally at least one third polymer layer (S3) having a Vicat softening temperature $\geq 149^{\circ}\text{C}$, preferably $\geq 160^{\circ}\text{C}$, further preferably $\geq 170^{\circ}\text{C}$; more preferably $\geq 180^{\circ}\text{C}$, determined according to ISO 306:2004 (50N; $50^{\circ}/\text{h}$). The invention further relates to a process for producing a multilayer structure (MS) and to a security document comprising such a multilayer structure according to the invention.

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