Title (en)

Sheet having a skin touch, printable at high rate, process for making the same, and packaging made therewith

Title (de)

Hochrate bedruckbares Blatt mit einem Hautgefühl, Verfahren zu seiner Herstellung, und damit hergestellte Verpackung

Title (fr)

Feuille avec un touché peau imprimable à des cadences élevées et son procédé de fabrication et emballage la comportant

Publication

EP 1039025 B1 20101215 (FR)

Application

EP 00400828 A 20000324

Priority

FR 9903837 A 19990326

Abstract (en)

[origin: EP1039025A1] The wrapping paper has a right surface with a skin feel, which can be printed at high speeds. It has a support paper material with a surface covering of at least expanded thermoplastic micro-spheres and a bonding agent forming the right paper surface. The paper has a static friction coefficient between the right and left surfaces of ≤ 0.95 and pref. ≤ 0.90. The paper weight is 70-500 g/m<2> and pref. 200-400 g/m<2>. The support paper is transparent or translucent, and especially a tracing paper, pref. from pressure refining of cellulose fibers. The covering layer on the right surface has a weight of 6-20 g/m<2> and pref. 8-17 g/m<2>. The covering layer is composed of 5-12 dry wt% of expanded thermoplastic micro-spheres and pref. 6-9 wt%, 15-95 dry wt% of a bonding agent with a glazing temp. of (-) 10 degrees C to (+) 35 degrees and pref. 20-40 wt%, 0-75 dry wt% of mineral pigments and pref. 40-75 wt% and 0-40 dry wt% of dyestuff, to give a total of 100 wt%. The expanded thermoplastic micro-spheres contain a gas, which expands at a temp. of 90-115 degrees C and pref. 100-110 degrees C. The surface covering has a low friction component in a distribution of 0.1-5.0 g/m<2> and pref. 0.3-3.0 g/m<2>. At least one surface contains a salt which can be ionized, and particularly sodium chloride. The support paper has a coloring at least under the layer of micro-spheres and/or a layer and/or a print which can be seen through the layer. An Independent claim is included for a paper prodn. process where the support paper is formed from a cellulose fiber suspension in water together with synthetic fibers if required. It is mixed with minerals, at least one bonding agent and a dye, an agent to resist moisture and other conventional papermaking additives. The left surface of the paper is coated with a material to reduce friction, and the paper is dried at 100 degrees C. The right surface of the paper is coated with a mixture of thermoplastic micro-spheres together with a bonding agent and mineral pigments and dyestuff. The coated paper is heated at 90-115 degrees C to dry the paper and expand the micro-spheres and pref. 100-110 degrees C. The paper is wound into a roll. Preferred Features: The low friction coating is applied by a glue press using a double-sided transfer film and the drying is through an air cushion. The cellulose fibers are refined to a high state and pref. ≥ 90 degrees SR. A further Independent claim is included for a wrapping process where the paper is drawn off the roll and cut into sheets in the required format. The sheets are printed at a speed of ≥ 8000 sheets/hr., and the printed sheets are cut to size. An adhesive is applied to either surface where the wrapping is to be secured. The products are wrapped, with the layer containing the expanded thermoplastic micro-spheres on the outer side.

IPC 8 full level

D21H 21/54 (2006.01); **B65D 65/42** (2006.01); **D21H 19/44** (2006.01); **D21H 19/84** (2006.01); **D21H 27/10** (2006.01)

CPC (source: EP)

D21H 19/44 (2013.01); **D21H 19/84** (2013.01); **D21H 21/54** (2013.01); **D21H 27/10** (2013.01)

Cited by

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