

**MULTILAYER FILM STRUCTURES FOR USE IN THE
PRODUCTION OF BANKNOTES OR THE LIKE**

ABSTRACT

5 A laminated multilayer film substrate for use in the production of banknotes includes a first layer comprising (a) a first layer having inner and outer sides, comprising at least about 50 weight percent of a high density polyethylene having a density of at least about 0.94, said first layer being
10 oriented in the transverse direction (TD) to a degree which is at least three times greater than the degree of orientation present in the machine direction (MD);

(b) a second layer having inner and outer sides, comprising at least about 50 weight percent of a high density polyethylene
15 having a density of at least about 0.94, said second layer oriented in the transverse direction to a degree which is at least three times greater than the degree of orientation present in the machine direction; and

(c) a laminating adhesive resin disposed between the inner
20 sides of (a) and (b), which comprises a component selected from the group consisting of low density polyethylene (LDPE) and linear low density polyethylene (LLDPE); said second layer being laminated to said first layer so that the transverse direction of orientation of said second layer is substantially aligned
25 with the transverse direction of orientation of said first layer.

The resultant films exhibit good embossability, dead-fold characteristics and other properties, making them highly suited for the production of bank notes and other security documents.

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