

LongLife

The banknote paper that “lives” longer



Louisenthal

Now your banknotes will be able to take even the roughest treatment.

LongLife sets new standards for banknote paper. Thanks to a microscopically thin coating, this high-tech material won't let grime, perspiration or dampness get it down. That's why it can stay in circulation for a significantly longer time. It's especially suitable for countries with tropical climates. With LongLife, there's no need to change anything:

- ▶ all state-of-the-art security features for banknotes may be applied.
- ▶ the printing process is identical.
- ▶ the look and feel are virtually the same as with standard banknote paper.

As you can see, LongLife is a very sensible investment. Especially for frequently handled low-denominated notes.



Moisture repellent instead of moisture absorbent. In contrast with standard banknote papers, liquids bead on LongLife just as they would on the surface of an impregnated raincoat.



Standard banknote paper

Well prepared for long-term circulation

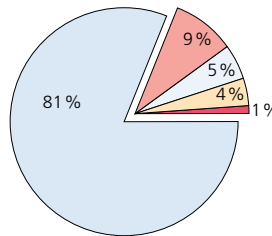
An innovative coating has been developed for LongLife that effectively protects against soiling agents. For the first time, banknotes made of natural fibres have a resilience previously achieved only by synthetic materials.

- ▶ moisture resistant instead of absorbent
- ▶ moisture forms beads on the surface
- ▶ highly resistant to soiling

Result: Long circulation times won't soil the reputation of banknotes made from LongLife paper.



Soiling is enemy number one when it comes to banknotes. Four out of five banknotes are removed from circulation because they have been heavily soiled. But soil resistance is LongLife's greatest strength. As a result, LongLife notes are predestined to stay in circulation for a long, long time.



- 81%** Soiling
- 9%** Damage caused by mechanical means, especially tears
- 5%** Graffiti
- 4%** General wear and tear
- 1%** Damage to security elements

Source: Compendium „Bank Notes of the World“

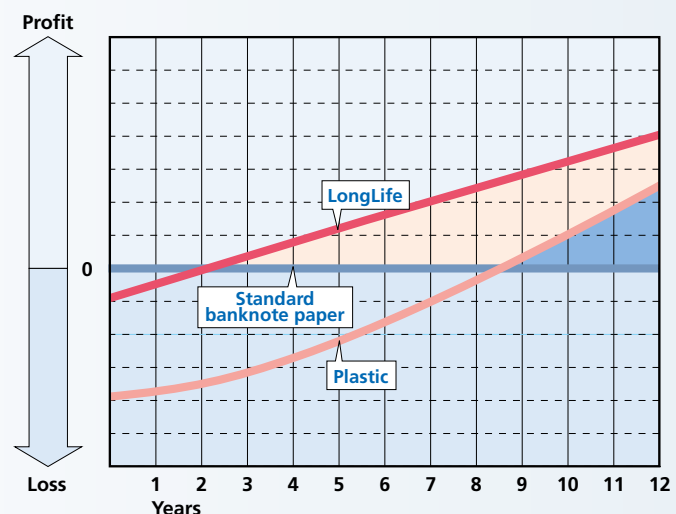
True value for money

When it comes to “value for money” LongLife beats plastic materials and conventional banknote paper hands down. The advantages begin right at the start in terms of cost:

- ▶ LongLife costs just a little more than standard paper. And is much less expensive than polymer substrates.

The cost advantages of LongLife become especially apparent when one evaluates the total costs over the first five years (procurement and replacement costs):

- ▶ approximately 20% savings compared to standard paper
- ▶ more than 30% savings compared to plastic material



When compared to polymer substrates, the additional cost of LongLife is recouped within two years.

All that's needed for security

LongLife allows any and all security features that are state-of-the-art in modern banknotes to be integrated. Despite its anti-soiling protection, there is no need to make any security compromises. On the contrary: LongLife enables printed images to have even sharper contours, making banknotes less susceptible to counterfeiting.

- ▶ Proven security features
- ▶ Unmistakable material quality
- ▶ Easily integrated into existing print designs
- ▶ Immediate public acceptance



A payback time that speaks for itself.

▶ Banknotes made of polymer substrates take more than eight years to pay for themselves. That's too long. Especially when you consider the shorter validity time of many banknote series.

▶ LongLife recoups the higher cost as compared with standard banknote paper in less than two years.

Last but not least, it's cheaper to switch to LongLife than to polymer substrates:

- ▶ There is no need to change any design or security features.
- ▶ No changes to the printing technique or further investments for additional enhancement processes are required.
- ▶ Up to 15% less ink is required.
- ▶ LongLife is easily handled by money processing machines, automatic bank tellers etc.
- ▶ There is no need for expensive PR campaigns – LongLife is accepted without hesitation.

LongLife

Paper-based security features in various light situations:

	Direct light	Transmitted light	UV light	
1 Watermarks				Embedded security features
2 Fluorescent fibres				
3 Security threads				
4 Hologram strip				Paper applications
5 Iridescent strip				
6 STEP®				
7 M-Feature (top secret)	Machine readable			Additional security feature



LongLife

Soil-repellent
Water-resistant
Environment-friendly

LongLife at a glance

- ▶ Specially coated banknote paper for high durability
- ▶ Significantly increased circulation periods – up to 200 %
- ▶ Less expensive than plastic materials
- ▶ Integrates all proven security features
- ▶ Minimal conversion effort
- ▶ No acceptance problems – due to familiar look and feel
- ▶ Environmentally friendly product made from natural fibres
- ▶ Economical implementation of “Clean Note Policy”

Louisenthal
P.O. Box 1185
83701 Gmund am Tegernsee
Germany
Phone: +49 (0) 89 41 19-16 19
Fax: +49 (0) 89 41 19-11 40
sales@louisenthal.com
www.louisenthal.com

© Papierfabrik Louisenthal GmbH, 2010.
All rights reserved.