

Sealys CoreMark

||||| Secure at first glance, tamper-proof on closer inspection



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Drawing on the combined strengths of multilayer card structure, secure printing and laser personalization, Gemalto redefines ID security with a state-of-the-art embedded optical feature. Sealys CoreMark is a semi-transparent opening fused into a 100% polycarbonate card body. Manufactured using intense heat and pressure, it is impossible to delaminate. Its distinctive watermark effect is produced by laser engraving personalized bearer data or a single official seal deep into the card's core layers.

Robust yet easily verifiable Level 1 security

Sealys CoreMark is a Level 1 optical security technology verifiable without the use of special equipment. This means documents incorporating Sealys CoreMark can be checked for authenticity quickly and easily during a cursory visual inspection with the unaided eye. The laser engraving used to reproduce the bearer's photo and printed data or an official seal makes Sealys CoreMark exceedingly difficult to replicate, averting forgery and alteration. To further enhance security, Sealys CoreMark can be combined with other visual security features such as guilloche and iris printing.

As natural as checking a banknote watermark

Sealys CoreMark's watermark effect capitalizes on the established and natural practice of verifying banknotes by examining their transparency. When held up to a source of light, the watermark becomes visible from the opposite side. Whether performed by government agents, contractors or citizens, it enables highly reliable document verification using an uncomplicated procedure already in widespread use.



Secure card structure, printing and personalization

Laser engraving technology embeds data deep inside the polycarbonate card's innermost layers to deter forgery and counterfeiting. Any attempt to substitute the engraved data would alter the watermark and combined security features. Printing and laser engraving in separate layers is also possible for an additional measure of security. Sealys CoreMark is combinable with additional security features, including positive or negative embossing and fluorescent printing visible only under a black light.

Fully intact card surface for greater design flexibility

The opposite side of the customizable Sealys CoreMark opening appears opaque unless held up to light, offering a fully intact card surface. This means expanded possibilities on the reverse side for genuinely flexible card design layout. The Sealys CoreMark opening can be custom-designed and incorporated into either side of the card body. It is available for chipless, contact and dual polycarbonate cards.

A proud heritage and continuous innovation

Gemalto has a background in secure document printing reaching back to 1886 through its integration of Finland's National Printing House. Leveraging its printing expertise in banknotes and identity documents, the company issued the world's first polycarbonate ID document in 1989—the Finnish driver's license—and the world's first passport to feature a polycarbonate datapage in 1995—the Finnish passport. The company introduced the polycarbonate Sealys Window security feature in 2006 with supply of the Swedish driver's license. Sealys Coremark demonstrates the company's continued commitment to introducing strong, naturally easy to verify security features for secure identity documents.

Gemalto currently contributes to over 20 national e-Passport programs. Gemalto also plays an active and ongoing role in over 14 national eID initiatives and nine major eHealthcare programs around the world.

