

# Sealys Laser-Secured Datapage

||||| Security features you can see  
Tamper-evident design you can trust



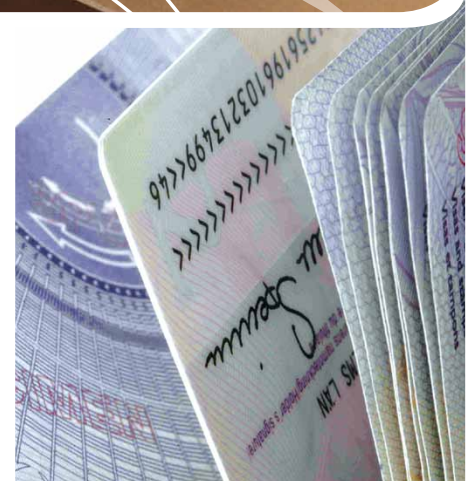
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security to be free

# Sealys Laser-Secured Datapage

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As a result of rising travel trends, governments must empower border security personnel to monitor a growing influx of people. This steadily increasing flow of tourists and independent travelers means border officials require secure identification solutions that are reliable yet simple to use.

Since 1997\*, 100% polycarbonate has proved to be the most robust material available for the manufacture of secure, durable passport data pages. In particular, its exceptional physical and optical properties prevent delamination while also expanding customization possibilities through laser engraving. Countries from all continents have now adopted polycarbonate data pages.

The Sealys Laser-Secured Datapage is part of Gemalto's turnkey ePassport offer. It provides four chief benefits:

- Strong yet easily verifiable security features
- Reduced risk of fraud owing to tamper-evident design
- Longer document life through first-class durability
- Genuine ease of implementation

## Strong yet easily verifiable security features

Gemalto collaborates with government forensic authorities on a regular and ongoing basis. To facilitate border control, Gemalto develops and deploys strong Level 1 security features visible to the naked eye, allowing swift, uncomplicated verification. The combined strength of the various security features ensures the fullest protection possible.

Unique Gemalto Level 1 security features include:

- Sealys Laser Sealer, preventing alteration of the original image



**Gemalto is active  
in over 25 national  
ePassport programs**

- Sealys Window, protecting the entire data page
- Sealys CoreMark, leveraging the tamper-resistant watermark effect

## Reduced risk of fraud owing to tamper-evident design

Because the 100% polycarbonate, multi-layered card is manufactured using intense heat and pressure, it is impossible to delaminate. The various layers fuse together to form a single, solid polycarbonate unit. Strong security features — including Sealys Window and irreversible laser engraving — are embedded deep inside the datapage. Any attempt to alter these through grinding or slicing becomes immediately visible.

Impervious to physical tampering, Gemalto's patented polymer hinge enables secure printing and laser personalization. Any attempt to remove it tears the hinge unevenly, leaving part of the secure printing on the data page and part on the hinge.

## Longer document life through first-class durability

The proven design of Sealys Laser-Secured Datapage ensures a 10 year product life and durability. Reduced wear and tear virtually eliminates the need to replace passport booklets. Durability is continuously tested against Gemalto defined target levels exceeding the ICAO standard requirements. Gemalto is also an active contributor to the secure document ISO and ICAO durability standards.

## Genuine ease of implementation with the support of Gemalto

Gemalto capitalizes on its 15 years experience and know-how for polycarbonate data pages, and contributes to risk-free deployments of such passports.

- Manufacturing spanning all stages from datapage to complete booklets, including operating system and inlays
- Choice of Thin Datapage or eDatapage, to suit the individual needs of each government
- Enrollment, issuance and verification solutions and services

Gemalto delivered the world's first polycarbonate passport in 1997\* and the world's first ePassport with polycarbonate datapage in 2005\*. As of today, Gemalto is active in over 25 national ePassport programs and polycarbonate datapage implementations for countries including Denmark, Latvia, Norway, Singapore and Sweden.

\*1997: world's first polycarbonate passport: Finland

\* 2005: world's first polycarbonate ePassport: Sweden and Norway

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