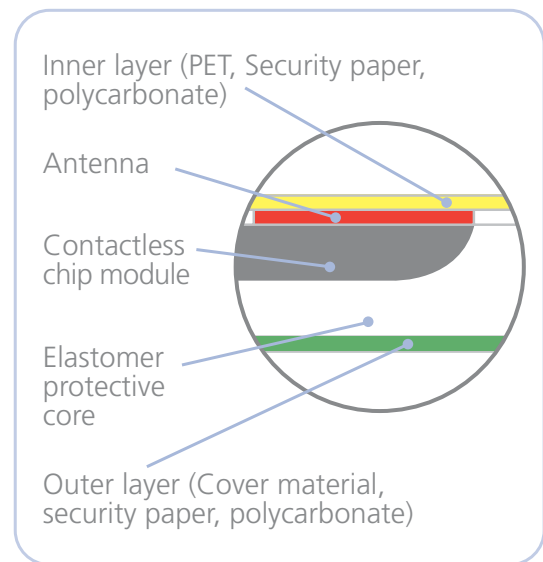


The unique *iLam*TM process

*iLam*TM is a novel method of **internal lamination** for the manufacture of contactless chip products for electronic passports and smart cards. The contactless chip and antenna are embedded in an elastomer core between two outside sheets such as passport cover material, security paper, polycarbonate or PET. The lamination takes place under high temperature and pressure without the use of adhesive. The central elastomer core is introduced in a molten state, encapsulating both the chip and the aerial, providing excellent protection against impact, flexing and other external forces.



Security and durability

*iLam*TM products offer government authorities a very high level of protection against counterfeiting or fraudulent alteration and are extremely durable.

No adhesive is used in the manufacture of the cover, page or card, thus preventing replacement of the chip by freezing or heating the product to separate the layers. Any attempt to remove and replace the chip results in the destruction of the antenna, rendering the chip unreadable and alerting authorities to the possibility of fraud. The outer layers can be 3-D embossed in register to provide an extra tactile feature which is extremely difficult to counterfeit. The product is flexible and highly durable and is not subject to cracking, fatigue or other deterioration during the life of the passport or card.

eID cards



The *iLam*™ ID1 card is an alternative to traditional contactless cards for national and corporate ID, driving licences, etc.

- Polycarbonate faced for laser engraving
- PET faced for conventional full colour surface printing or embedded reverse printing
- Variable data can be reverse printed on the inside to prevent alteration
- Cards can be 3D embossed in register to prevent the use of plain white cards by counterfeiters



Hinged cards – a novel concept from Brite*iD*

- Double the area for personal information, instructions for use or promotional messages
- Anti-skimming device to prevent reading of the chip when closed
- A highly durable, fully plastic alternative to paper based folding products
- Ideal for travel cards, registration cards, etc.

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