

## ***iLam™* e-passport cover**

The construction of the *iLam™* e-passport cover is shown in the diagram below and consists of:

- Special 150 $\mu$  polyester suitable for gluing to the passport end paper
- Antenna screen printed to the polyester layer
- Contactless chip module
- Elastomer core, which surrounds the contactless module to provide maximum protection to the chip.
- Cover material

The total thickness of the cover will be approximately 850 $\mu$ , depending on the thickness of the cover material.

This construction provides a flexible and durable inlay, with excellent protection of the chip against damage. The security printer's existing cover material can be used, or Brite iD can supply special cover materials which have been through extensive durability testing.

The advantages of the *iLam™* cover compared to other products are:

- Better protection against damage of the chip or antenna in daily use
- As no adhesive is used, it is not possible to separate the outside layers from the core without damage. Cutting through the polyester layer to access the chip will destroy the antenna
- The cover material can be 3D embossed in register on front and/or back of the passport to give additional security
- As the inlay and cover are one structure, there is no need for expensive modification of the passport line or loss of production due to passing the cover twice through the line
- Less likelihood of damage to the chip during passport production compared to passing the inlay twice through the line

