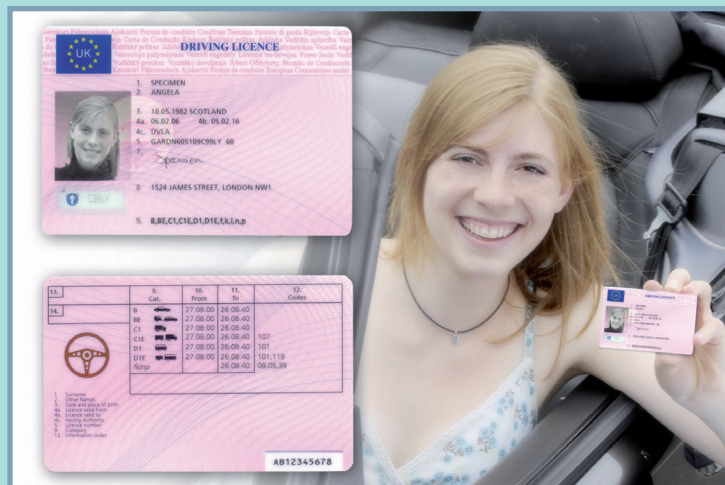




CASE STUDY: DRIVER'S LICENSES FOR THE UK

The Swiss are known for their excellent security. So it was no surprise when Trüb AG, the well-known Swiss security card manufacturer, decided to use Makrofol® ID to make over 40 million drivers licenses for the UK. Our polycarbonate film helped the credit-card-sized licenses set new global standards for protection against counterfeiting. Trüb's patented color printing process combined with our high contrast laser engravable film were used to create personalized features, including photographs, which change color when viewed at different angles.



One of the big benefits of using Makrofol® ID is that these types of features can be permanently embedded into the film. After individual layers are created, all the layers are fused together during the lamination process-turning the entire card into a single piece of polycarbonate. If a counterfeiter were to try to tamper with the security features from the outside he would cause considerable damage to the card. A contact chip or dual interface chip can be integrated as an additional security feature if desired.

The excellent mechanical properties of Makrofol® ID make the driver's license extremely strong and durable in day-to-day use. The film is very stiff and tough, even at low temperatures, giving the cards good long-term flexural strength. Even after regular bending, they still return to their original shape. Thanks to polycarbonate, the film is also heat resistant up to 145°C and does not become warped at high temperatures.

Company: Trüb AG, Aarau, Switzerland

Product: Makrofol® ID

Market: Safety/Security

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