

Dimension in photo-protection



tru/wi

duction

AO compliant security features

ization features for polycarbonate documents

ts to laser personalized documents

h for enhanced photo-protection with tru/window™ LOCK

Switzerland

company, founded in 1859

any in the development, production, integration and
of identification solutions

experience in manufacturing and personalization of
identity documents

pages for passports

identity cards

nses, tachograph cards

mits

references in more than 30 countries over 4 continents



ntal projects reference list

Other documents



Armenia (DL, VRC)



Belgium (Police ID)



Bosnia-Herzegovina (ID, DL, PRC)



Bulgaria (TG)



Croatia (ID, PRC)



El Salvador (ID)



Estonia (ID, DL, TG, BRP)



Finland (TG)



Georgia (DL, VRC)



Guinea (ID)



Hong Kong SAR (ID)



Kyrgyzstan (DL)



Latvia (TG)



Liechtens



Lithuania



Macedon



Moldavia



Montene



Oman (G



Romania



South Afr



Switzerla



Ukraine (



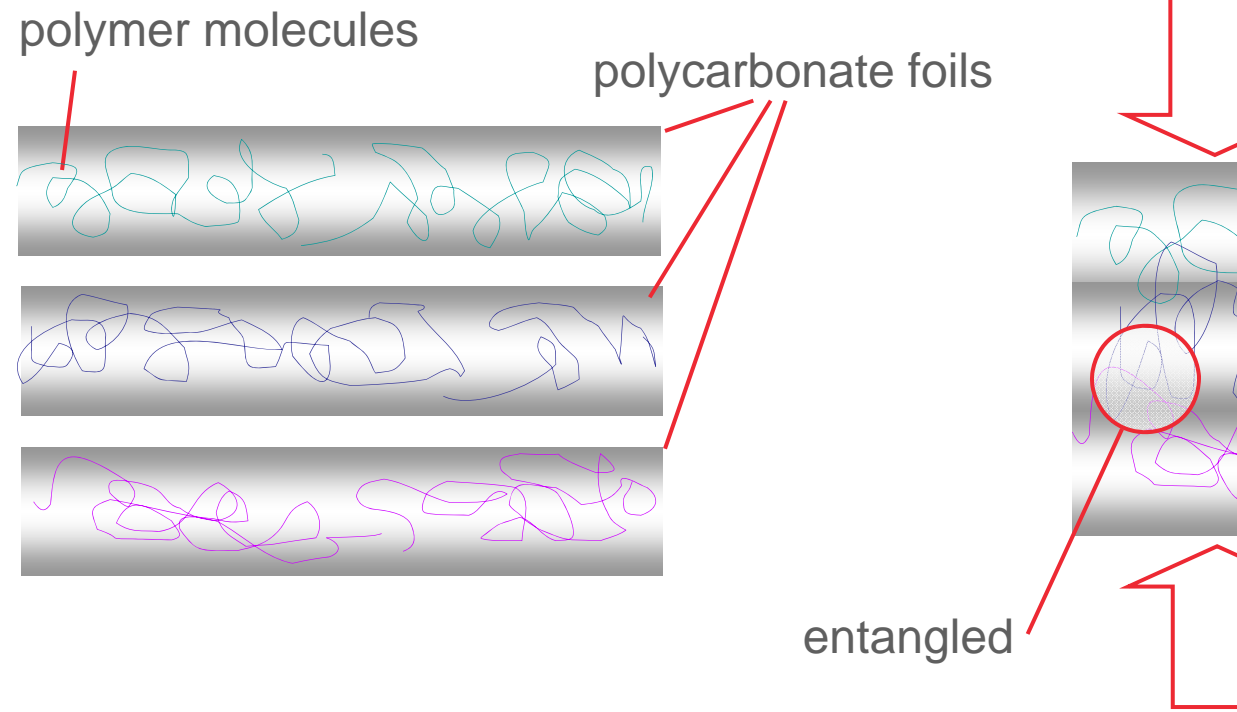
United Ki



Uzbekista

atapage made of genuine polycarbonate

polycarbonate
heat and pressure,
used



dy
ance against mechanical, chemical and thermal stress
ss against delamination or splitting
of card body, 10 years under normal use
nalisation by means of laser engraving

CAO compliant security elements

Level by combining several security elements

gram®

Laser Image

Variable Ink

Filter Image

ing

ound

positive and negative

raving

r

hinge



Personalization features

standards by laser engraving personalization

laser engraving

data inside card body

ty and life span

es required

security features at time of personalization, e.g.

r marking

crpyted information in portrait e.g. IPI

nalized holder images, e.g.

mage

er images (MLI/CLI)

Laser personalized documents

Laser engraving personalization

alteration of card holder data
by means of additional laser marking
on the card, glasses or long hearing
aid, overwriting with a different photo



Security laser personalization features...

enhanced protection against such attacks depending on the security

equipment for implementation (e.g. Image Perf) or verification

security elements for safeguarding card holder portrait against

personalization feature that “locks” the por

for new laser personalization feature

n of a “secure” secondary portrait

similar alteration of primary and secondary card holder p

ment, understand and verify

entation with tru/window™ LOCK security feature

n of “negative” portrait image

ed laser personalisation equipment

tional dark image information by

is not possible



tru/window™ LOCK work?

e in polycarbonate card body

substrate integrated into transparent window

sonalization of secondary portrait on the metal foil

personalization process using standard

g equipment

nize and to verify



Approach for enhanced photo-protection

UV™ LOCK

Protection against post-issuance alteration of card holder photo
Durability and multilayer security thanks to combination
of transparent window feature

Personalization process using standard laser equipment
Easy to understand and verify



for your attention



Peter Schaer

Head of Sales EMEA & Latin America
Public Sector

Trüb AG
Hintere Bahnhofstrasse 12
5001 Aarau / Switzerland
www.trueb.ch

Phone (direct)	+41 62 832 0186
Phone	+41 62 832 0000
Fax	+41 62 832 01 90
Mobile	+41 79 251 3003
Mail	peter.schaer@trueb.ch

Visit us at our booth