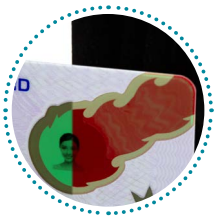
O.V.M® Fiduciary Polycarbonate

8 Security Features & Check Points

obtained by inserting One single layer of PC film

Makrofol® ID O.V.M Film
Colorshiting Secured Poycarbonate

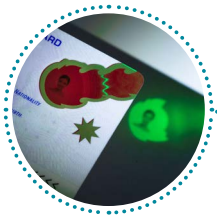


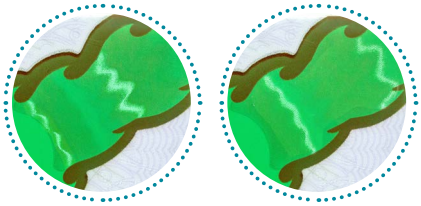
ColorShift — LEVEL 1

The transparent area of the ID document changes color according to the background (White or Dark) on which it is displayed.
E.g. Green on White surface and Red on Dark surface. It is an innovative security feature, highly intuitive and easy to remember.

Smart Shadow — LEVEL 1+

It is a new level of verification between level 1 and level 2, observable thanks merely to equipment readily available to the general public: the flashlight of a smartphone (or any other conventional white light source). For example, the transparent area turns Red while its projected shadow remains Green.





DOV-ID — LEVEL 1

Dual Optically Variable Image Device:
Combining O.V.M Fiduciary Polycarbonate with embossed surface (e.g. IDOPTIC) allows to create a new generation of OVD.
A simple tilt and/or flip of the doc will generate a change of pattern & color. It will create an optical variable color shifting embossing.

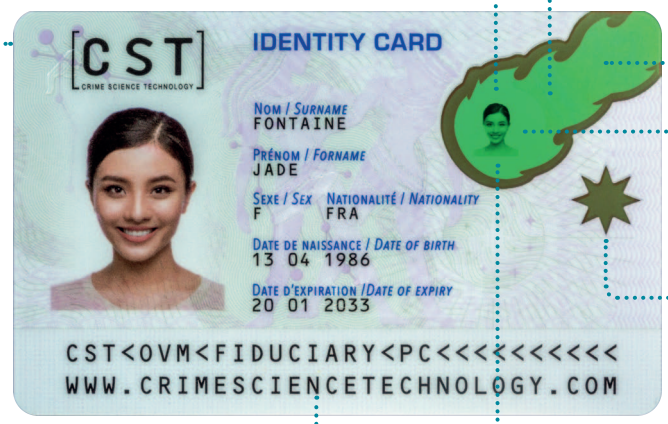
Smart Edge — LEVEL 1 & 2

The edge of a transparent area clearly shows a secondary color. Also, under UV light, the entire edge surrounding the document shows strong fluorescence, but only on part of the thickness.

DataLock — LEVEL 1+

Secured Laser Personalization

Laser personalization inside a transparent area secured with O.V.M Fiduciary Polycarbonate appears in color when checked with a flashlight from the backside. It will be impossible to forge by sanding.

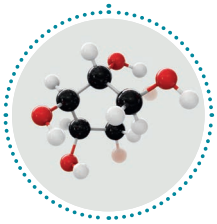


UV-Cut — LEVEL 2

Once incorporated in the structure of the card between 2 opaque films, the O.V.M Fiduciary Polycarbonate allows the design of colored areas switching colors under UV.

ChemLock — LEVEL 3

Level 3 is controlled with laboratory equipment. Each O.V.M Fiduciary Polycarbonate is identifiable by a unique spectral DNA. It can be certified by C.S.T lab.



UV-Boost — LEVEL 2

The transparent area secured with O.V.M Fiduciary Polycarbonate shows a very strong fluorescence under UV light.

O.V.M® Fiduciary Polycarbonate

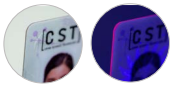
8 Security Features & Check Points

obtained by inserting One single layer of PC film

Makrofol® ID O.V.M Film
Colorshiting Secured Poycarbonate

- Strong securization of the core material itself
  Fully compliant with ICAO 9303 recommendation (A.5.1.4 Synthetic substrates)
- Disruptive, highly secured and easily memorable security feature
- Integration into the construction of the doc with no change in process and no additional cost
- One film = Multi-visual effects and multi-level protection (1 / 1+ / 2 / 3)
- Potential alternative and replacement of other security features
  (e.g. holograms/OVD, OVI, UV effect)
- A versatile technology which can be embedded into several types of ID documents
- Available in multiple color shifts –
  For examples: Blue / Red - Green / Red - Pink / Green

Recap of Security Features and Check Points obtained with one single O.V.M film

Effect	Level	Description	
ColorShift	1	The transparent area of the ID document changes color according to the background (White or Dark) on which it is displayed. E.g. Green on White surface and Red on Dark surface. It is an innovative security feature, highly intuitive and easy to remember.	
DOV-ID	1	Dual Optically Variable Image Device: Combining O.V.M Fiduciary Polycarbonate with embossed surface (e.g. IDOPTIC) allows to create a new generation of OVD. A simple tilt and/or flip of the doc will generate a change of pattern & color. It will create an optical variable color shifting embossing.	
DataLock	1	Laser personalization inside a transparent area secured with O.V.M Fiduciary Polycarbonate appears in color when checked on dark background. It will be impossible to forge by sanding or overprinting the surface.	
Smart Shadow	1+	It is a new level of verification between level 1 and level 2, observable thanks merely to equipment readily available to the general public: the flashlight of a smartphone (or any other conventional white light source). For example, the transparent area turns Red while its projected shadow remains Green.	
UV-Boost	3	The transparent area secured with O.V.M Fiduciary Polycarbonate shows a very strong fluorescence under UV light.	
UV-Cut	2	Once incorporated in the structure of the card between 2 opaque films, the O.V.M Fiduciary Polycarbonate allows the design of colored areas switching colors under UV.	
Smart Edge	1 2	The edge of a transparent area clearly shows a secondary color. Also, under UV light, the entire edge surrounding the document shows strong fluorescence, but only on part of the thickness.	
ChemLock	3	Level 3 is controlled with laboratory equipment. Each O.V.M Fiduciary Polycarbonate is identifiable by a unique spectral DNA. It can be certified by C.S.T lab.	

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