

**NEW**  
Anti-Rewritable  
Colouring Film

**GOVERNMENT  
BLACK  
LASER FILM**



# PETix™ PETF OLED BLACK

## HIGH SECURE LASER MARKING FILM

### **New Laser Concept Boosts Up Security Non Rewritable Laser Concept – Only Mark Once Combination of personalization techniques**

**PETix™ PETF OLED BLACK** is a transparent film made of biaxially oriented Polyethylene Terephthalate (PET), characterized by its excellent robustness. It is designed as external card layer for the upgrade and manufacturing of high performance smart cards, allowing card life time to exceed 10 years in the field.

**PETix™ PETF OLED BLACK** is specifically designed for exceptional BLACK Colour laser engraving. The outside layer is applicable to D2T2, thermal transfer and can be protected with patches and thin hologram foils. Additional personalization such as embossing, magstripe, signature panels or holograms can be applied.

**PETix™ PETF OLED BLACK** is specifically developed to adhere to PETG core films, even when 60% ink coverage is applied.



## I. Typical properties

PROPERTY	UNIT	VALUE	TEST METHOD
<b>Dimensions</b>			
Thickness	µm mil	78 3,07	
Tolerance	%	5	
Squareness	mm/m	< 0,8	Internal Agfa method
<b>Optical</b>			
Texture side 1 (away from core)		glossy	
Texture side 2 (towards core)		glossy	
Surface Quality		No dust / fibers No scratches No contamination	
<b>Physical</b>			
Density	g/cm <sup>3</sup>	1,3	23 °C ASTM D 1505 - 68
Tensile strength @ break	N/mm <sup>2</sup>	MD : > 195 TD : > 202	ASTM D882-83
Melting point	°C	245	
Shrinkage	%	0,35	30 min at 100 °C
Chemical resistance - Solvents e.g. ethanol		no change	60' in product

## 2. Application information

PROPERTY	UNIT	VALUE	RECOMMENDATION
<b>Overlay Printing / Personalisation</b>			
Personalisation recommendation		Thermal transfer Dye sublimation	Use standard processing parameters. Adapted processing parameters might be applicable
<b>Lamination</b>			
Collating and card construction		Crystalline material	The nature of the material requires to follow certain rules in collating. (please see collating instructions)
Lamination temperature recommended range	°C	110-150	110-130
Lamination pressure recommended range	N/cm <sup>2</sup>	40-250	
Lamination materials		PETG	Lamination against PETG core films will result in extremely durable cards exceeding all applicable ISO specifications.
<b>Storage and Shelf life</b>			
Storage conditions: temperature relative humidity	°C %	15-25 50-60	
Shelf life	months	12	

## 3. Assortment

The material is available in roll form or cut sheets. Please specify the sheet size with your order.

### Important collating instructions for PETix films

Since PETix films are made from biaxially oriented PET, care should be given to the correct assembly of the sheets, in order to obtain flat cards after lamination. Please respect the following precautions. Agfa does not guarantee flat cards in case these precautions are not respected.

Looking from front to back during assembly of a stack, a RECTO sheet should always be combined with a VERSO sheet of the same material.

[www.agfa.com/petix](http://www.agfa.com/petix)  
[petix@agfa.com](mailto:petix@agfa.com)

**PETix™ PETF**

© copyright 2014 by Agfa-Gevaert NV. All rights reserved. AGFA and the Agfa rhombus are trademarks of Agfa-Gevaert NV & Co KG. All other trademarks are recognized. All product specifications are subject to change without prior notice.

PETIX PETF OLED BLACK GB 05102015

**AGFA** 