

**TRANSPORT
Heat-Resistant
Solution**



PETix™ PETF OL

GREY DATA LASER MARKING PROTECTIVE FILM

+ 10 years lifetime
Boosts PVC cards up to 110 °C / 230 °F
Sublime scratch resistance

PETix™ PETF OL is a transparent film made of biaxially oriented Polyethylene Terephthalate (PET), characterized by its excellent robustness. It is designed as an 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 OL is specifically developed to adhere to PETG, PVC and PC core films, even when 100% ink coverage is applied.

When combined with PVC core material, laser engraved data result in an unobtrusive density level.



I. Typical properties

PROPERTY	UNIT	VALUE	TEST METHOD
Dimensions			
Thickness	µm mil	68 2,68	
Tolerance	%	4	
Squareness	mm/m	< 0,8	Internal Agfa method
Optical			
Texture side 1 (away from core)		glossy	
Texture side 2 (towards core)		glossy / coated texture	
Surface Quality		No dust / fibers No scratches No contamination	
Physical			
Density	g/cm ³	1,3	23 °C ASTM D 1505 - 68
Tensile strength @ break	N/mm ²	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 - Solvents e.g. MEK		no change no change	60' in product 60' in product

2. Application information

PROPERTY	UNIT	VALUE	RECOMMENDATION
Lamination			
Collating and card construction		Crystalline material	The nature of the material requires to follow certain rules in collating. (please see collating instruction)
Lamination temperature recommended range	°C	110-150	110-130
Lamination pressure recommended range	N/cm ²	40-250	
Lamination materials		PVC, PETG, PC	Can be laminated against printed core films; resulting in extremely durable cards exceeding applicable ISO specifications.
Laser Engraving		Grey Data	
Storage and Shelf life			
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.

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PETix™ PETF

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