



## PLEXIGLAS® Film white WF011

### Product

PLEXIGLAS® Film WF011 is an ultra-destructible, white acrylic film with a matt surface on one side for security labels.

The film is acrylic based and therefore it contains no plasticizers. It is completely halogen-free and meets the requirements of Commission Regulation (EU) No 10/2011.

Thanks to its proprietary acrylic polymer formulation, the film displays a defined very low elongation at break and very high crack propagation. These properties provide a unique ultra-destructibility safety feature while maintaining its long shelf life.

Due to its excellent performance under long-term weathering and UV light exposure, PLEXIGLAS® Film WF011 does not present color change or yellowing.

### Application

PLEXIGLAS® Film WF011 is used as a single face layer in ultra-destructible security labels without the need for an overlay film.

### Processing

PLEXIGLAS® Film WF011 displays good printability behavior in all printing technologies such as gravure, flexography and digital. In most cases, no pre-treatment or primers are required.

The film can be directly coated with pressure sensitive adhesives (PSA), hot-melts, solvent or water based adhesives or indirectly by transfer coating.

PLEXIGLAS® Film WF011 performs very well in roll-to-roll processing technologies such as printing, cutting and PSA/Liner lamination.

The film can be easily cut to size or die cut.

### Sales range

PLEXIGLAS® Film White WF011 is delivered in standard rolls of 50 µm thickness and 1020 mm width. The film is available with and without masking film on the matt side.

Custom-made rolls can be produced under prior commercial agreement.

Technical data			
Properties	Test method	Unit	Value
<b>Optical</b>			
Luminous reflectance (D65/10°)	DIN EN ISO 11664	%	89
L* (in reflection, D65/10°)			95,7
a* (in reflection, D65/10°)			-1,0
b* (in reflection, D65/10°)			-0,6
Color coordinate x (in reflection, D65/10°)			0,312
Color coordinate y (in reflection, D65/10°)			0,331
UV transmittance (280 – 380 nm)	DIN EN 410	%	0
Gloss (20°/60°/85°) Top side	DIN EN ISO 2813	GU	2 / 6 / 36
<b>Mechanical</b>			
Tensile yield stress ( $\sigma_y$ )	DIN EN ISO 527-3	MPa	No yield
Nominal tensile strain at break ( $\epsilon_{tB}$ )	DIN EN ISO 527-3	%	< 9
<b>Miscellaneous</b>			
Accelerated weathering resistance	DIN EN ISO 4892-2, method A, cycle 1	h	10000, No visible change
Mass per unit area (without masking film)	DIN EN ISO 536	g/m <sup>2</sup>	69 calculated
Surface tension	DIN ISO 8296	mN/m	42
Requirement of Commission Regulation (EU) No 10/2011	+		

**Röhm GmbH**  
Acrylic Products

Riedbahnstraße 70  
64331 Weiterstadt  
Germany

[www.plexiglas.de](http://www.plexiglas.de)  
[www.roehm.com](http://www.roehm.com)

® = registered trademark  
PLEXIGLAS is a registered trademark of Röhm GmbH, Darmstadt, Germany.  
Certified to DIN EN ISO 9001 (Quality) and DIN EN ISO 14001 (Environment)

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments.

The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.