

Technical Information

# PLEXIGLAS® FILM WHITE WF011

## PRODUCT DATA SHEET

### PRODUCT

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

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, which provides 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 and tapes.

### PROCESSING

PLEXIGLAS® Film WF011 displays good printability behavior in all printing technologies such as gravure, flexography and digital.

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

PLEXIGLAS® Film WF011 also displays a very good behavior on 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 50µm thickness and 1020mm width. The film is protected by masking film on the matt side. Tailor made rolls can be produced, under prior commercial agreement.

## TECHNICAL DATA

Properties	Test method	Unit	Value
<b>Optical</b>			
Luminous reflectance (D65)		%	89
L* (in reflection, D65)			95,7
a* (in reflection, D65)	DIN 5033 (8°/di), ISO 17223, ISO 11664		-1,0
b* (in reflection, D65)			-0,6
Color coordinates x (in reflection, D65)			0,312
Color coordinates y (in reflection, D65)			0,331
UV transmittance (280 – 380 nm)	DIN EN 410	%	0
Gloss (R20°/60°/85°) Top side	ISO 2813		2 / 6 / 36
<b>Mechanical</b>			
Tensile stress at yield	ISO 527-3	MPa	No yield
Tensile stress at break	ISO 527-3	%	< 5
<b>Miscellaneous</b>			
Accelerated weathering resistance	ISO 4892-2 method A, cycle 1	h	10000, No visible change
Mass per unit area	ISO 1183	g/m <sup>2</sup>	89
Surface tension	DIN 53364	mN/m	42

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Certified to DIN EN ISO 9001 (Quality) and DIN EN ISO 14001 (Environment)

Evonik Industries is a worldwide manufacturer of PMMA products sold under the PLEXIGLAS® trademark on the European, Asian, African and Australian continents and under the ACRYLITE® trademark in the Americas.

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EVONIK PERFORMANCE MATERIALS GMBH  
Acrylic Products  
Riedbahnstr. 70 info@plexiglas.net  
64331 Weiterstadt www.plexiglas.net  
Germany

Ref. No. 239-69