

## PLEXIGLAS® Film White WF002

### Product Data Sheet

#### Product

PLEXIGLAS® Film WF002 is a high weather resistant, glossy and white acrylic film for graphic printings and high quality laminations.

Due to its excellent performance under long term weathering and UV light exposure, PLEXIGLAS® Film WF002 does not present color change or yellowing.

Its glossy and very smooth surface leads the film to provide an excellent printing quality.

#### Application

PLEXIGLAS® Film WF002 can be used to be printed on as high quality film decoration and then laminated on different polymeric films and sheets. Laminated decoration films protected by PLEXIGLAS® are suitable for a wide range of molding processes such as thermoforming and insert molding.

PLEXIGLAS® Film WF002 can be used as a single face layer in high UV and weathering resistant durable labels and tapes without the need for an overlay film.

#### Processing

PLEXIGLAS® Film WF002 displays good printability behavior in all printing technologies such as gravure, flexography and digital. In most cases any pre-treatment or primers are not required.

PLEXIGLAS® Film WF002 can be laminated onto polymeric substrates such as films or extruded sheets based on PVC, PC, ABS, PMMA and ASA by in-line or roll-to-roll heat lamination.

High quality laminates in between PLEXIGLAS® Film WF002 and other polymeric substrates such as PET, PC, PP, PE and PVC can be achieved with pressure sensitive adhesives (PSA) or solvent based adhesives.

The film displays a very good behavior on roll-to-roll processing technologies such as printing, cutting and PSA lamination.

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

#### Sales range

PLEXIGLAS® Film WF002 is delivered in standard rolls of 50µm thickness and 1270mm width.

Tailor made rolls can be produced under prior commercial agreement.

## Technical data

Properties	Test method	Unit	Value
<b>Optical</b>			
Color coordinate x	DIN 5033		0,3652
Color coordinate y	DIN 5033		0,3670
<b>Mechanical</b>			
Tensile stress at yield ( $\sigma_y$ )	ISO 527-3	MPa	33
Yield strain ( $\epsilon_y$ )	ISO 527-3	%	5
Nominal strain at break ( $\epsilon_b$ )	ISO 527-3	%	> 50
<b>Thermal</b>			
Glass transition temperature T <sub>g</sub> (DSC)	ISO 11357	°C	95
<b>Miscellaneous</b>			
Accelerated weathering resistance	ISO 4892-2 method A, cycle 1, 65% RH	h	10000 No visible change
Specific gravity	DIN 53479	g/cm <sup>3</sup>	1,28
Surface tension	DIN 53364	mN/m	50

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

Evonik 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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