

# PLEXIGLAS® Film 0F011

## Product Data Sheet

### Product

PLEXIGLAS® Film 0F011 is a transparent, glossy and high weather resistant acrylic film for outdoor applications.

Due to its superior performance under long term weathering and UV light exposure, PLEXIGLAS® Film 0F011 does not present color change or yellowing.

Therefore it provides an enhanced protection of plastic substrates from degradation caused by UV wave lengths.

### Application

PLEXIGLAS® Film 0F011 is suitable as top layer for high UV and weathering protection of polymeric substrates, especially for PVC decoration films.

### Processing

PLEXIGLAS® Film 0F011 can be laminated onto polymeric substrates such as films or extruded sheets based on PVC, ABS, ASA and PC by in-line or roll-to-roll heat lamination processes.

PLEXIGLAS® Film 0F011 can also be embossed with different structures on its surface.

PLEXIGLAS® Film 0F011 displays a very good printing behavior in a wide variety of printing processes.

### Sales range

PLEXIGLAS® Film 0F011 is delivered in standard rolls of 53µm thickness, 1380mm width, and 3050m length.

Tailor made rolls can be produced under prior commercial agreement.

## Technical data

Properties	Test method	Unit	Value
<b>Optical</b>			
Luminous transmittance $\tau_{D65}$	ISO 13468-2	%	92
UV transmittance (280 – 380 nm)	DIN EN 410:2011	%	< 1
Refractive Index	ISO 489	%	1,49
<b>Mechanical</b>			
Tensile stress at yield ( $\sigma_y$ )	ISO 527-3	MPa	35
Yield strain ( $\epsilon_y$ )	ISO 527-3	%	6
Nominal strain at break ( $\epsilon_b$ )	ISO 527-3	%	> 50
<b>Thermal</b>			
Glass transition temperature $T_g$ (DSC)	ISO 11357	° C	94
<b>Miscellaneous</b>			
Accelerated weathering resistance	ISO 4892-2 method A, cycle 1, 65% RH	h	12000 No visible change
Specific gravity	DIN 53479	g/cm <sup>3</sup>	1,13
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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