

# PLEXIGLAS® Film 99836

## Product Data Sheet

### Product

PLEXIGLAS® Film Clear 99836 is a clear transparent coextruded lamination film based on Polymethylmethacrylate with Polybutylacrylate elastomer. The film shows a very good performance in long-time outdoor weathering. It prevents substrates from deterioration by ultraviolet rays.

The special feature of Plexiglas® Film Clear 99836 is the active covalent bonding to thermoset materials, which is providing long lasting durability and cap-stock film adhesion also under high temperature/high moisture conditions.

The film has a very good abrasion resistance in combination with chemical resistance against weak acids and non-polar solvents.

### Application

PLEXIGLAS® Film Clear 99836 is perfectly suitable for UV-protection and surface finishing of thermoset materials (e.g. based on melaminic or phenolic chemistry) like high pressure laminates („HPL“).

### Processing

The film shows very good behaviour in every heat lamination process, preheating is not necessary.

The cutting behaviour of the Plexiglas® Film Clear 99836-coated laminates is not negatively influenced by the film layer.

Also the film material can be used in all conventional printing processes, like gravure-, flexo- and silk screen printing.

### Sales range

PLEXIGLAS® Film Clear 99836 is delivered on rolls, in a thickness of 50 µm and a width of 1360 mm.

Other widths on request.

## 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	59
Yield strain ( $\epsilon_y$ )	ISO 527-3	%	6
Nominal strain at break ( $\epsilon_B$ )	ISO 527-3	%	20
<b>Thermal</b>			
Glass transition temperature $T_g$ (DSC)	ISO 11357	°C	96
<b>Miscellaneous</b>			
Accelerated weathering resistance	ISO 4892-2 method A, cycle 1, 65% RH	h	7500 No visible change
Specific gravity	DIN 53479	g/cm <sup>3</sup>	1,15
Surface tension	DIN 53364	mN/m	50

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