EUROPLEX®

EUROPLEX®
Film

EUROPLEX® HC Film 0F701

Product

EUROPLEX® HC film 0F701 is a transparent, weather resistant, co-extruded and hard coated PMMA film. It is designed to bring a state-of-the-art UV protection and surface finish for thermoset materials, such as High Pressure Laminates.

This film shows excellent performance in long-term outdoor weathering without any risk of color change or yellowing.

The PMMA layer is based on a tailor-made PMMA resin that provides excellent chemical adhesion to melamine resin. The coated top layer brings a high level of weatherability and scratch resistance, as well as exceptional chemical resistance.

HPL panels protected with EUROPLEX® HC Film 0F701 achieve a grade 5 surface hardness according to EN 438-2.25:2016. They will also pass the EN 438-2.26:2016 chemical resistance test succesfully without any change.

Application

Due to its excellent chemical adhesion to melamine resin combined with its top-notch UV, scratch and weather resistance, EUROPLEX® HC Film 0F701 is the best choice as a top layer on panels of exterior grade compact laminates.

Processing

The EUROPLEX® HC Film 0F701 is directly applied during the manufacturing process of panels. No additional equipment, process step or adhesive are necessary.

Standard process temperatures of 140°C to 150°C as well as standard process pressures of 70 to 100 bar are perfectly compatible with integration of the films and achievement of proper chemical bonding.

Sales range

EUROPLEX® HC Film 0F701 is delivered in standard rolls of 105µm thickness and 1340mm width.

Tailor-made rolls and cut-to-size-sheets can be produced under prior commercial agreement.

Shelf life

EUROPLEX® HC Film 0F701 has a shelf life of 12 months from delivery date on and should be used within this period to ensure best performance.

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Technical data EUROPLEX® HC Film 0F701			
Properties	**Test method**	**Unit**	**Value**
Optical			
Luminous transmittance (D65/10°)	DIN EN ISO 11664	%	92
UV transmittance (280–380nm)	DIN EN 410	%	< 1
Mechanical			
Tensile yield stress (σ_y)	DIN EN ISO 527-3	MPa	37
Nominal strain at break (ε_{tB})	DIN EN ISO 527-3	%	≥ 25
Miscellaneous			
Accelerated weathering resistance	DIN EN ISO 4892-2, method A, cycle 1	h	15000
UV transmittance (280–380nm) after weathering resistance test	DIN EN 410	%	< 5

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® = registered trademark
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Certified to DIN EN ISO 9001 (Quality) and DIN EN ISO 14001 (Environment)

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