



EUROPLEX® HC Film OF701

Product

EUROPLEX® HC film OF701 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 OF701 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 successfully 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 OF701 is the best choice as a top layer on panels of exterior grade compact laminates even in horizontal applications.

Processing

The EUROPLEX® HC Film OF701 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 155 °C as well as standard process pressures of 70 to 100 bars are perfectly compatible with integration of our films and achievement of proper chemical bonding.

Sales range

EUROPLEX® HC Film OF701 is delivered in standard rolls of 105 µm thickness and 1340 mm width.

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

| Technical data | | | |
|---------------------------------------------|--------------------------------------|------|------------------------------|
| Properties | Test method | Unit | Value |
| Optical | | | |
| Luminous transmittance (D65/10°) | DIN EN ISO 11664 | % | 92 |
| UV transmittance (280–380 nm) | 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 | 10000 h No visible change |

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® = registered trademark

EUROPLEX is a registered trademark in EU and a filed trademark in US of Röhm GmbH, Darmstadt, Germany.
Certified to DIN EN ISO 9001 (Quality) and DIN EN ISO 14001 (Environment)

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