EUROPLEX®

EUROPLEX®
Film

EUROPLEX® HC Film 0F700

Product

EUROPLEX® HC Film 0F700 is a highly performing weather resistant and transparent co-extruded PMMA and PVDF film. Its 3 layer design brings a UV protection level which has never been reached before in the High Pressure Laminates industry. This film shows excellent performance in long-term outdoor weathering without the risk of color change or yellowing.

The base layer is based on a tailor made PMMA resin that provides excellent chemical adhesion to melamine resin while the intermediate layer contains a high performing UV absorber package. Last but not least, the PVDF top layer provides a high level of weatherability as well as a very good chemical resistance, anti-soiling and easy to clean properties including graffiti.

Application

Due to its very good chemical adhesion to melamine resin combined with its excellent UV and weather resistance, EUROPLEX® HC Film 0F700 is suitable to be used as top layer on panels of exterior grade compact laminates.

Processing

EUROPLEX® HC Film 0F700 is directly applied during the manufacturing process of the panels.

No additional equipment, process step or adhesive is 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 the integration of our films and the achievement of the proper chemical bonding.

Sales range

EUROPLEX® HC Film 0F700 is delivered in standard rolls of 53 and 75µm thickness and 1330mm width, also available up to 2700mm. It can also be delivered as cut to size sheets. Tailor made rolls can be produced under prior commercial agreement.

POLYVANTIS

EUROPLEX®
Film

Technical data EUROPLEX® HC Film 0F700			
Properties	**Test method**	**Unit**	**Value**
Optical			
Luminous transmittance (D65/10°)	DIN EN ISO 11664	%	92
UV transmittance (280 – 380nm)	DIN EN 410	%	< 0.5
Mechanical			
Tensile yield stress (σ_y)	DIN EN ISO 527-3	MPa	59
Yield strain (ε_y)	DIN EN ISO 527-3	%	8
Nominal strain at break (ε_{tB})	DIN EN ISO 527-3	%	60
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
Density	DIN EN ISO 1183	g/cm³	1.22

POLYVANTIS GmbH
Riedbahnstraße 70
64331 Weiterstadt
Germany

www.plexiglas.de
www.polyvantis.com

® = registered trademark
EUROPLEX is a registered trademark of POLYVANTIS GmbH, Germany.
Certified to DIN EN ISO 9001 (Quality) and DIN EN ISO 14001 (Environment)

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments.

The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.