

# EUROPLEX® Film HC 99716

## Product Data Sheet

### Product

EUROPLEX® Film HC 99716 is a weather resistant and transparent co-extruded PMMA and PVDF 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 the 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 while the PVDF top layer brings a high level of weatherability as well as a very good chemical resistance, anti-soiling, anti-fouling 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® Film HC 99716 is suitable to be used as top layer on panels of exterior grade compact laminates.

### Processing

The EUROPLEX® Film HC 99716 is directly applied during the manufacturing process of the panels. No additional equipment, process step or adhesive is necessary.

Standard process temperatures of 145°C to 155°C as well as standard process pressures of 70 to 100 bars are perfectly compatible with the integration of our films and the achievement of the proper chemical bonding.

### Sales range

EUROPLEX® Film HC 99716 is delivered in standard rolls of 50µm thickness, 45µm PMMA layer and 5µm PVDF top layer and 1330mm width.

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	%	93
UV transmittance (280 - 380 nm)	DIN EN 410:2011	%	< 2
Refractive Index	ISO 489	%	-
Haze	ASTM D1003	%	7,3
<b>Mechanical</b>			
Tensile stress at yield ( $\sigma_y$ )	ISO 527-3	MPa	42
Yield strain ( $\epsilon_y$ )	ISO 527-3	%	6
Nominal strain at break ( $\epsilon_B$ )	ISO 527-3	%	$\geq 50$
<b>Thermal</b>			
Glass transition temperature $T_g$ (DSC)	ISO 11357	$^{\circ}\text{C}$	-
<b>Miscellaneous</b>			
Accelerated weathering resistance	ISO 4892-2 method A, cycle 1, 65% RH	h	8000 No visible change
Specific gravity	DIN 53479	$\text{g}/\text{cm}^3$	1,2
Surface tension (PVDF side)	DIN 53364	$\text{mN}/\text{m}$	23

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 expressed 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 technical 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 should be used.

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

Printed in the USA.

Evonik Cyro LLC  
299 Jefferson Road, Parsippany, NJ 07054 US  
Phone +1 800 631 5384  
films@evonik.com www.acrylite.net