

## EUROPLEX® Film HC 0F045

### Product Data Sheet

#### Product

EUROPLEX® Film HC 0F045 is a weather resistant, transparent and optical quality co-extruded PMMA and PVDF film for graphic lamination systems.

This film displays excellent performance in long term outdoor weathering without experiencing color change or yellowing.

EUROPLEX® Film HC 0F045 provides high protection for other polymeric substrates against degradation caused by UV radiation.

Due to its PVDF top layer, the film displays very good chemical resistance, anti-soiling and easy to clean effect.

#### Application

EUROPLEX® Film HC 0F045 can be laminated as a protective top layer onto polymeric films and sheets based on PVC, ABS, PC and ASA.

Decorative films protected with EUROPLEX® on top can be thermoformed and laminated on different substrates, such as PVC profiles, or used in molding processes such as In-Molding Decoration.

In labels or Graphic Arts, EUROPLEX® Film HC 0F045 can be used as a high quality clear overlay in laminate systems for high UV and weathering protection. Chemical resistant, anti-soiling and easy to clean effects are achieved.

#### Processing

EUROPLEX® Film HC 0F045 is only suitable for back printing, on the PMMA side, by a wide variety of printing technologies.

EUROPLEX® Film HC 0F045 can be laminated onto polymeric substrates such as films or extruded sheets based on PVC, PC, ABS, PMMA and ASA by in-line or roll-to-roll heat lamination.

High quality laminates in between EUROPLEX® Film HC 0F045 and other polymeric substrates can be achieved with pressure sensitive adhesives (PSA) or solvent based adhesives.

The film can be cut-to-size or die cut.

#### Sales range

EUROPLEX® Film HC 0F045 is delivered in standard rolls of 50µm thickness, 45µm PMMA layer and 5µm PVDF top layer and 1450mm 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	%	92
UV transmittance (280 – 380 nm)	DIN EN 410:2011	%	≤ 1,5
Refractive Index	ISO 489	%	-
Haze	ASTM D1003	%	3
<b>Mechanical</b>			
Tensile stress at yield ( $\sigma_y$ )	ISO 527-3	MPa	38
Yield strain ( $\epsilon_y$ )	ISO 527-3	%	6
Nominal strain at break ( $\epsilon_B$ )	ISO 527-3	%	≥ 50
<b>Thermal</b>			
Glass transition temperature $T_g$ (DSC)	ISO 11357	° C	-
<b>Miscellaneous</b>			
Accelerated weathering resistance	ISO 4892-2 method A, cycle 1, 65% RH	h	10000 No visible change
Specific gravity	DIN 53479	g/cm <sup>3</sup>	1,19
Surface tension (PVDF side)	DIN 53364	mN/m	23

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Certified to DIN EN ISO 9001 (Quality) and DIN EN ISO 14001 (Environment)

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Ref. No. 239-18 July 2015