EUROPLEX®

EUROPLEX® Film HC 99710
Product Data Sheet

Product

EUROPLEX® Film HC 99710 is a weather resistant and transparent co-extruded PMMA and PVDF film for high quality lamination systems.

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

EUROPLEX® Film HC 99710 provides high protection for other polymeric substrates against degradation caused by UV radiation.

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

Application

EUROPLEX® Film HC 99710 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 laminated on different substrates, such as PVC profiles.

In labels or Graphic Arts, EUROPLEX® Film HC 99710 can be used as a 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 99710 is only suitable for back printing, on the PMMA side, by a wide variety of printing technologies.

EUROPLEX® Film HC 99710 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 99710 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 99710 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.

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Technical data

Properties	Test method	Unit	Value
Optical			
Luminous transmittance τ_{D65}	ISO 13468-2	%	93
UV transmittance (280 – 380 nm)	DIN EN 410:2011	%	≤ 1.5
Refractive Index	ISO 489	%	–
Haze	ASTM D1003	%	5.3
Mechanical			
Tensile stress at yield (σy)	ISO 527-3	MPa	38
Yield strain (εy)	ISO 527-3	%	6
Nominal strain at break (ε_B)	ISO 527-3	%	≥ 50
Thermal			
Glass transition temperature Tg (DSC)	ISO 11357	°C	–
Miscellaneous			
Accelerated weathering resistance	ISO 4892-2 method A, cycle 1, 65% RH	h	10000 No visible change
Specific gravity	DIN 53479	g/cm³	1.2
Surface tension (PVDF side)	DIN 53364	mN/m	23

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