



PLEXIGLAS®
Film

PLEXIGLAS® Film OF097

Product

PLEXIGLAS® Film OF097 is a high weather resistant, glossy and transparent acrylic film for graphic printings and high quality laminations.

Due to its excellent performance under weathering and UV light exposure, PLEXIGLAS® Film OF097 does not present color change or yellowing. Therefore it provides high protection of laminating systems from degradation caused by UV radiation.

Its glossy and very smooth surface leads the film to have an excellent optical quality surface.

Application

PLEXIGLAS® Film OF097 can be printed on as high quality film decoration and then laminated on different polymeric films and sheets. Laminated decoration films based on PLEXIGLAS® are suitable for a wide range of molding processes such as thermoforming, and insert molding.

In labels and tapes, PLEXIGLAS® Film OF097 can be used as single face layer or clear overlay in laminate systems for high UV and weathering protection. High gloss and quality finishing are achieved.

Thanks to its excellent optical properties and lamination with pressure sensitive adhesives (PSA), PLEXIGLAS® Film OF097 is highly recommended for long-term outdoor applications, such as traffic control signs.

PLEXIGLAS® Film OF097 has superior optical properties which allows the film to be used as overlay in high quality ID cards.

Processing

PLEXIGLAS® Film OF097 has good printability and can be printed on using all technologies such as gravure, flexography and digital. In most of the cases any pre-treatment or primers are not required.

PLEXIGLAS® Film OF097 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 can also be achieved using PLEXIGLAS® Film OF097 and other polymeric substrates such as PET, PC, PP, PE and PVC, with the help of pressure sensitive adhesives (PSA) or solvent based adhesives.

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

Sales range

PLEXIGLAS® Film OF097 is delivered in standard rolls of 75 µm thickness, 1270 mm width, and 1000 m length.

Custom-made rolls (up to 2800 mm in width) can be produced under prior commercial agreement.



Technical data			
Properties	Test method	Unit	Value
Thickness		µm	75
Optical			
Luminous transmittance (D65/10°)	DIN EN ISO 11664	%	92
UV transmittance (280–380 nm)	DIN EN 410	%	< 1
Haze	ASTM D1003	%	3.0
Mechanical			
Tensile yield stress (σ_y)	DIN EN ISO 527-3	MPa	46
Yield strain (ϵ_y)	DIN EN ISO 527-3	%	6.7
Nominal tensile strain at break (ϵ_{tb})	DIN EN ISO 527-3	%	60
Thermal			
Glass transition temperature T_g (DSC)	DIN EN ISO 11357	°C	109
Miscellaneous			
Accelerated weathering resistance	DIN EN ISO 4892-2, method A, cycle 1	h	8000 No visible changes
Density	DIN EN ISO 1183	g/cm ³	1.15
Surface tension	DIN EN ISO 8296	mN/m	38 – 42

POLYVANTIS GmbH

Riedbahnstraße 70
64331 Weiterstadt
Germany

www.plexiglas.de
www.polyvantis.com

® = registered trademark

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