Technical information

ACRYLITE® Film 0F072

Product Data Sheet

Product

ACRYLITE® Film 0F072 is a high weather resistant, glossy and transparent acrylic film for graphic printing and high quality laminations.

Due to its excellent performance under weathering and UV light exposure, ACRYLITE® Film 0F072 does not present color change or yellowing. Therefore, it provides high protection for laminating systems from degradation caused by UV radiation.

Its glossy and very smooth surface provides the film with an excellent optical quality surface.

Application

ACRYLITE® Film 0F072 can be printed on as well as laminated on different polymeric films and sheets. Laminated decoration films based on ACRYLITE® are suitable for a wide range of molding processes such as thermoforming, and insert molding. ACRYLITE® Film 0F072 can also be used as a high quality film decoration.

In labels and tapes, ACRYLITE® Film 0F072 can be used as single face layer or clear overlay in laminate systems for high UV and weathering protection. When this happens, high gloss and quality finishing is achieved.

Due to its good optical property and lamination with pressure sensitive adhesives (PSA), ACRYLITE® Film 0F072 is recommended for traffic control signs under long term outdoor application.

ACRYLITE® Film 0F072 can be used as overlay in high quality ID Cards because of its superior optical properties.

Processing

ACRYLITE® Film 0F072 has a great printability behavior in all printing technologies such as gravure, flexography and digital. In most of the cases any pre-treatment or primers are not required.

ACRYLITE® Film 0F072 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 ACRYLITE® Film 0F072 and other polymeric substrates such as PET, PC, PP, PE and PVC can be achieved with pressure sensitive adhesives (PSA) or solvent based adhesives.

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

Sales range

ACRYLITE® Film 0F072 is delivered in standard rolls of 60 or 75µm thickness, 1270mm width, and 1000mm length.

Tailor made rolls can be produced under prior commercial agreement.

Technical data

Properties	Test method	Unit	Value
Optical			
Luminous transmittance τ_{D65}	ISO 13468-2	%	92
UV transmittance (280 – 380 nm)	DIN EN 410:2011	%	< 1
Refractive Index	ISO 489	%	1,49
Haze	ASTM D1003	%	2,6
Mechanical			
Tensile stress at yield (σ_Y)	ISO 527-3	MPa	56
Yield strain (ϵ_Y)	ISO 527-3	%	6,5
Nominal strain at break (ε_B)	ISO 527-3	%	40
Thermal			
Glass transition temperature Tg (DSC)	ISO 11357	°C	107
Miscellaneous			
Accelerated weathering resistance	ISO 4892-2 method A, cycle 1, 65% RH	h	8000 No visible changes
Specific gravity	DIN 53479	g/cm³	1,16
Surface tension	DIN 53364	mN/m	50

Printed in the USA.

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