

PLEXIGLAS® Film 0F032 matt

Product Data Sheet

Product

PLEXIGLAS® Film 0F032 matt is a very high UV and weather resistant acrylic film with both side matt surfaces for graphic printings and high quality laminations.

The film maintains high light transmission properties even though it displays a matt surface. Therefore it is suitable to create matt finishing effects even after printing and lamination.

The matt finish provides an anti-blocking effect in printing processes and light scattering can be achieved when used in illumination applications.

The irreversible anti-glare surface of PLEXIGLAS® Film 0F032 is not affected by thermoforming or deep drawing.

Application

PLEXIGLAS® Film 0F032 matt can be used to 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, tapes and graphic arts, PLEXIGLAS® Film 0F032 matt can be used as a matt single face layer or matt overlay in laminate systems for high UV and weathering protection.

Due to its good anti-glare and matt surface PLEXIGLAS® 0F032 matt can be used as overlay in high quality ID Cards.

Processing

PLEXIGLAS® Film 0F032 has a good 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.

PLEXIGLAS® Film 0F032 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 PLEXIGLAS® Film 0F032 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

PLEXIGLAS® Film 0F032 matt is delivered in standard rolls of 70µm thickness, 1420mm width and 2050mm 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	%	90
UV transmittance (280 – 380 nm)	DIN EN 410:2011	%	< 1
Gloss (60°)	DIN 67530		22
Mechanical			
Tensile stress at yield (σ_y)	ISO 527-3	MPa	35
Yield strain (ϵ_y)	ISO 527-3	%	6
Nominal strain at break (ϵ_B)	ISO 527-3	%	> 50
Thermal			
Glass transition temperature T_g (DSC)	ISO 11357	°C	88
Miscellaneous			
Accelerated weathering resistance	ISO 4892-2 method A, cycle 1, 65% RH	H	12000 No visible change
Specific gravity	DIN 53479	g/cm ³	1,13
Surface tension	DIN 53364	mN/m	50

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

Evonik is a worldwide manufacturer of PMMA products sold under the PLEXIGLAS® trademark on the European, Asian, African and Australian continents and under the ACRYLITE® trademark in the Americas.

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