

# ACRYLITE® Film 0F003

## Product Data Sheet

### Product

ACRYLITE® Film 0F003 is a UV and weather resistant acrylic film with one side matt and another side glossy surface. It also presents high light transmission and transparency.

Due its two different surfaces the film provides freedom for different finishing effects after printing and/or molding.

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

ACRYLITE® Film 0F003 also presents a good scratch resistance when compared to other polymeric films.

### Application

The combination among printability, cut-to-size, die cutting, scratch resistance and anti-blocking effect leads ACRYLITE® Film 0F003 to be a good material to be used in film decoration in forming, back molding or over molding parts such as automotive, household, home appliances, electronic devices.

In illumination applications, ACRYLITE® Film 0F003 provides a very good combination in between light transmission and light diffusion providing a light scattering effect.

### Processing

High quality graphic printings can be achieved with ACRYLITE® Film 0F003. The film is easily printed by screen printing and digital printing technologies and in most of the cases the film can be printed without any pre-treatment such as primers or corona.

The film can be cut to sizes with die-cut using steel rule dies and column guided tools. By using laser cutting, glossy and shiny edges are achieved.

Easily processed by thermo-forming, high stress forming, over molding, and back molded processes.

### Sales range

ACRYLITE® Film 0F003 is delivered in standard rolls of 250µm thickness, 1270mm width, and 1000m length.

Tailor made rolls and cut-to-size sheets can be produced under prior commercial agreement.

## Technical data

Properties	Test method	Unit	Value
<b>Optical</b>			
Luminous transmittance $\tau_{D65}$	ISO 13468-2	%	87
UV transmittance (280 – 380 nm)	DIN EN 410:2011	%	< 5
Gloss (60°) matt side	DIN 67530		2.3
Gloss (60°) glossy side	DIN 67530		85
Refractive Index	ISO 489	%	1,49
<b>Mechanical</b>			
Tensile stress at yield ( $\sigma_y$ )	ISO 527-3	MPa	51
Yield strain ( $\epsilon_y$ )	ISO 527-3	%	13
Nominal strain at break ( $\epsilon_B$ )	ISO 527-3	%	25
<b>Thermal</b>			
Glass transition temperature Tg (DSC)	ISO 11357	° C	113
<b>Miscellaneous</b>			
Accelerated weathering resistance	ISO 4892-2 method A, cycle 1, 65% RH	h	3000 No visible change
Specific gravity	DIN 53479	g/cm <sup>3</sup>	1,17
Surface tension	DIN 53364	mN/m	50

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