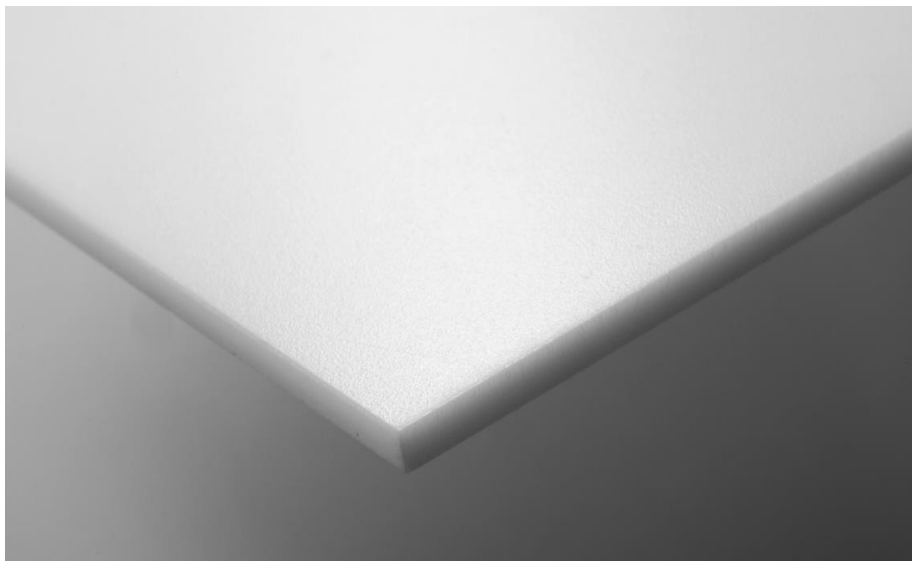


## Lumieo® II

PMMA (acrylic)



### Description:

Lumieo S84 is a diffuser sheet made from polymethyl methacrylate. It is a premium white acrylic sheet which gives high transmittance and excellent lamp hiding capabilities. Compared to Lumieo S84, Lumieo II has 5% better light transmittance while still maintaining lamp hiding capabilities.

### Application:

Lumieo S84 is an excellent choice for those applications where lamp hiding, and transmission efficiency are required. Lumieo can be thermoformed.

### Service information:

For samples, pricing and delivery please contact us at:

+45 4618 6644

Email:

[sales@ingemanncomponents.com](mailto:sales@ingemanncomponents.com)

Looking for a solution with this product, click [here](#).

## LUMIEO® II

High diffusing PMMA sheet that provides fantastic lamp hiding capabilities and high transmission.

80% Transmission

0.75mm thickness

Max temp +70°C

Custom sizes available

Product data	
<b>Standard Material</b>	PMMA – acrylic
<b>Available size:</b>	Rectangle up to 1524x1270mm
<b>Thickness</b>	Standard 0.75mm ±0.127mm
<b>Refractive Index</b>	1.491
<b>Transmittance</b>	80%
<b>Temperature Range</b>	–40°C to +70°C

Ingemann Components  
Tingbjergvej 6  
4632 Bjæverskov  
Denmark

[www.ingemanncomponents.com](http://www.ingemanncomponents.com)

The logo for Ingemann Components, featuring the word 'ingemann' in a bold, lowercase sans-serif font with a small circular icon above the 'i', and the word 'Components' in a smaller, uppercase sans-serif font below it.

**Technical Specs - Lumieo® II**

Properties	0.75 mm	Notes
<b>Physical -</b>		
Density	1.18 g/cm <sup>3</sup>	
Rockwell Hardness	113	
<b>Optical -</b>		
Transmittance	80%	
Refractive index	1.491	
Reflection	N/A	
<b>Mechanical -</b>		
Tensile strength	69.6 MPa	
<b>Thermal -</b>		
Long term temp.	-40°C to +70°C	
Short term temp.	90°C	
Melting temp.	130°C	
<b>Surface</b>	Structured on one side and glossy on the other side	
<b>UV stable</b>	Yes	
<b>Dirt depreciation</b>	Anti-static treatment	
<b>Chemical Resistance</b>		See next page
<b>Thermal expansion</b>	$7 K^{-1} \times 10^{-5}$	
<b>Glow wire test IEC 60695-2-12</b>		
<b>Fire Rating</b>	N/A	

**Processing options at Ingemann Components**

Processing	Yes/No	Notes
Milling	Yes	Recommended processing
CNC Knife	No	
Laser Cutting	Yes	
Saw	Yes	Recommended processing
Die Cut	No	
Thermo-forming	Yes	
Print	Yes	

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## Chemical Resistances

Chemical resistance at 20°C	
Acetone -	Ethyl acetate -
Ammonia +	Glycerin +
Amyl Alcohol -	Fuel oil o
Benzene, free from aromatics +	Hexane +
Benzole -	Isopropanol o
Boric Acid +	Coffee +
Butanol -	Caustic potash solution +
Chlorinated hydro-carbon -	Ketone -
Chloroform -	Methylene chloride -
Chlorinated water/air o	Lactic acid 10% +
Dibutyl phthalate -	Mineral oil +
Diocetyl phthalate -	Caustic soda +
Glacial acetic acid -	Nitrocellulose lacquer -
Acetic essence -	Oxalic acid +
Aqueous acetic acid +	Wax +
Ethanol o	Hydrogen peroxide o
Acidity of wine +	Hydrochloric acid conc. 35% +
Xylene -	Sodium carbonate +
Paraffin +	Salad vinegar +
Petroleum ether +	Stearic Acid +
Phosphoric acid 10% +	Tea +
Sulphuric acid 10% +	Turpentine +
Nitric acid 10% +	Toluene -
Hydrochloric acid 10% +	Diluting agent -

- + Resistant
- o Limited resistance
- Not Resistant
- na Not available

LUMIEO® II

At 20°C PMMA is resistant to hydrocarbons, aromatic free carburetor fuel, mineral oils, vegetable- and animal fats and oils, water, aqueous salt solutions, diluted acids and alkalis. Aromatic hydrocarbons and hydrogen chlorides, ester, ether and ketones attack and degrade PMMA.

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