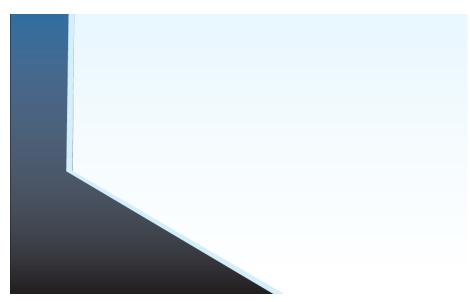
Ingemann Components

Lumieo® S84

PMMA (acrylic)



Description:

Lumieo is a premium white acrylic sheet which provides both high transmission and excellent lamp hiding capabilities. The diffusion comes from a combination of surface texture and special diffusing additives.

Application:

Lumieo Frost is an excellent choice for those applications where lamp hiding, and transmission efficiency are required, while being at a lower premium than frosted sheet. Lumieo can be thermoformed.

Service information:

For samples, pricing and delivery please contact us at: +45 4618 6644 Email: sales@ingemanncomponents.com

Looking for a solution with this product, click <u>here</u>.

Product data Standard Material PMMA – acrylic Available size: Rectangle up to 2540 mm x 1270 mm Thickness Standard 2 mm ± 0.127mm (3.0mm upon request +0.127 to +0.254mm) Refractive Index 1.491 Transmittance 73% Temperature Range -40°C to +70°C

LUMIEO® S84

High diffusing PMMA sheet that has a natural protection against UV yellowing.

73% Transmission 2-3mm thickness Max temp +70°C Custom sizes available

Ingemann Components
Tingbjergvej 6
4632 Bjæverskov
Denmark
www.ingemanncomponents.com



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Technical Specs - Lumieo® S84

Properties	2 mm	Notes
Physical –		
Density	$1.18 \ g/cm^3$	
Rockwell Hardness	113	
Optical -		
Transmittance	73%	
Refractive index	1.491	
Reflection	N/A	
Mechanical -		
Tensile strength	69.6 MPa	
Thermal -		
Long term temp.	-40°C to +70°C	
Short term temp.	90°C	
Melting temp.	130°C	
Surface	Structured on one side and glossy on the other side	
UV stable	Yes	
Dirt depreciation	Anti-static treatment	
Chemical Resistance		See next page
Thermal expansion	$7 K^{-1} x 10^{-5}$	
Glow wire test IEC 60695-2-12	N/A	
Fire Rating	N/A	

Processing options at Ingemann Components

Processing	Yes/No	Notes
Milling	Yes	Recommended processing
CNC Knife	No	
Laser Cutting	Yes	
Saw	Yes	
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	0
Benzene, free from aromatics	+	Hexane	+
Benzole	-	Isopropanol	0
Boric Acid	+	Coffee	+
Butanol	-	Caustic potash solution	+
Chlorinated hydro-carbon	-	Ketone	-
Chloroform	-	Methylene chloride	-
Chlorinated water/air	0	Lactic acid 10%	+
Dibutyl phthalate	-	Mineral oil	+
Dioctyl phthalate	-	Caustic soda	+
Glacial acetic acid	-	Nitrocellulose lacquer	-
Acetic essence	-	Oxalic acid	+
Aqueous acetic acid	+	Wax	+
Ethanol	0	Hydrogen peroxide	0
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® S84

At 20°C PMMA is resistant to hydrocarbons, aromatic free carburetor fuel, mineral oils, vegetableand 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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