

Ingemann Components

White Optics White97® | White98®

White97 F-23, White98 F-16A, HDPE



WHITE97®

WHITE98®

High reflecting HDPE sheet that provides fantastic increase in light output while making it diffuse.

97-98% Reflection
0.4 & 0.17mm thickness
Max temp +100°C
Custom sizes available

Description:

The White Optics offers the some of the highest available today. White97 and White98 offers 97% and 98% reflectivity respectively. Due to this high reflectivity and flexibility that White optics offer, the sheet is one of the best solution when making lamp significantly more efficient.

Application:

The white optics sheet is often used in situations when an increase in light output is wanted. Because it increases light output, the electrical power usage can be lowered, hence saving energy.

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 [here](#).

Product data	
Standard Material	HDPE
Available size:	White97: Rectangle up to 1270xRoll mm White98: Square up to 1220x1220mm
Thickness	White97 F-23: 0.4 mm ±0.03mm White98 F-16A: 0.21 mm +0.03mm
Refractive Index	1.575
Reflectance	97% and 98%
Temperature Range	-40°C to +100°C

Ingemann Components
Tingbjergvej 6
4632 Bjæverskov
Denmark

www.ingemanncomponents.com

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Components

Technical Specs – White97® | White98®

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Properties	0.4 & 0.17 mm	Notes
Physical –		
Density	0.97 g/cm ³	
Rockwell Hardness	90.7	
Optical –		
Transmittance	N/A	
Refractive index	1.54	
Reflection	97% – 98%	
Mechanical –		
Tensile strength	32 MPa	
Thermal –		
Long term temp.	–40°C to +100°C	
Short term temp.	120°C	
Melting temp.	215°C	
Surface	White97 F-23: Glossy on both sides White98 F-16A: Glossy on one side, sticky on the other side.	
UV stable	Yes	
Dirt depreciation	Anti-static treatment	
Chemical Resistance		See next page
Thermal expansion	12 K ⁻¹ x10 ⁻⁵	
Glow wire test IEC 60695-2-12		
Fire Rating	UL94: HB	

Processing options at Ingemann Components

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

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Ingemann Components Chemical Resistances

Chemical resistance at 20°C			
Acetone	-	Ethyl acetate	na
Ammonia	+	Glycerin	+
Amyl Alcohol	+	Fuel oil	o
Benzene, free from aromatics	-	Hexane	o
Benzole	-	Isopropanol	+
Boric Acid	+	Coffee	+
Butanol	na	Caustic potash solution 50%	+
Chlorinated hydro-carbon	na	Ketone	-
Chloroform	-	Methylene chloride	-
Chlorinated water/air	na	Lactic acid 10%	+
Dibutyl phthalate	-	Mineral oil	+
Diocetyl phthalate	na	Caustic soda	o
Glacial acetic acid	o	Nitrocellulose lacquer	-
Acetic essence	+	Oxalic acid	+
Aqueous acetic acid	+	Wax	+
Ethanol	+	Hydrogen peroxide	+
Acidity of wine	na	Hydrochloric acid conc. 35%	+
Xylene	-	Sodium carbonate	+
Paraffin	na	Salad vinegar	na
Petroleum ether	-	Stearic Acid	o
Phosphoric acid 10%	+	Tea	+
Sulphuric acid 10%	+	Turpentine	-
Nitric acid 10%	+	Toluene	-
Hydrochloric acid 10%	+	Potassium Hydroxide	+

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

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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.