

Advantages

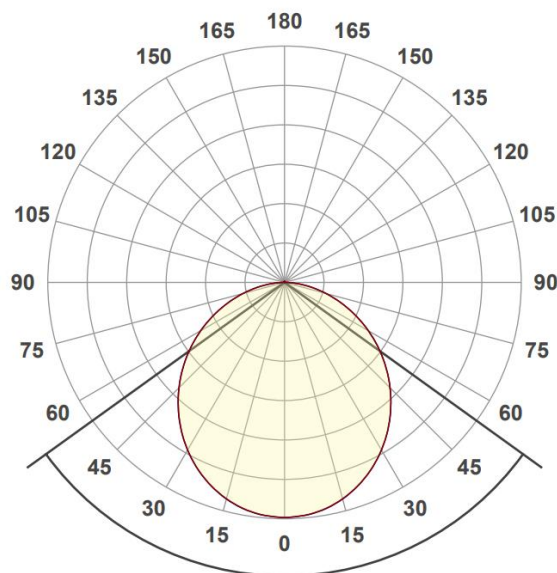
- 60 – 93% Light Transmission
- Various diffusion levels
- Mat/Glossy Surface
- UV resistant

The **Ingemann Sky series** is our premium diffusor solution. It is an excellent choice for applications where efficient lamp hiding and transmission are required. The diffusion comes from a combination

of very fine structures and special diffusing additives giving the opportunity of 60, 70, 80 or 93% light transmission. The PMMA sheet has a natural protection against UV yellowing. The safe choice tailored to your needs extruded by our Korean partner Sewon.

Product data

Material	PMMA - acrylic
Standard dimensions	Rectangle up to 1850mm x 1250mm (Longer dimensions upon request)
Thickness	2mm \pm 0,1mm 3mm \pm 0,1mm (other thicknesses upon request)
Refractive index	1,491
Transmittance	Varies from 60% - 93%
Temperature range	-40°C to +70°C



Measured light distribution curve, Ingemann Sky 60 ■ C0/C180 ■ C90/C270

*Datasheet is made on behalf of producer's information. Ingemann Components A/S cannot guarantee the authenticity of the data.

CONTACT US

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Technical specifications

Properties	2mm
Physical	
Density	1,18g/cm ³
Rockwell Hardness	113
Optical	
Transmittance	53% - 93%
Refractive index	1,491
Reflection	N/A
Mechanical	
Tensile strength	69,6MPa
Thermal	
Long term temperature	-40°C to +70°C
Short term temperature	90°C
Melting temperature	130°C
Surface	Structured on one side and glossy on the other side
UV stable	Yes
Dirt depreciation	Anti-static treatment
Chemical resistance, PET	See next page
Thermal expansion	7K ⁻¹ x 10 ⁻⁵
Glow wire test IEC 60695-2-12	GWFI: 650/2 Results: Pass Measured at: 650°C, 2mm thickness
Fire rating	N/A

Product	PMMA Diffusor Plate				
Thickness	Standard 2mm				
Total transmittance	53%	60%	70%	80%	93%
Diffusion coefficient	>80	>70	>50	>40	>1

Chemical resistances - PMMA

Chemical resistances 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	-
Hydrochlorid 10%	+	Diluting agent	-

+ Resistant
 o Limited resistance
 - Not resistant
 N/A Not available