

### Advantages

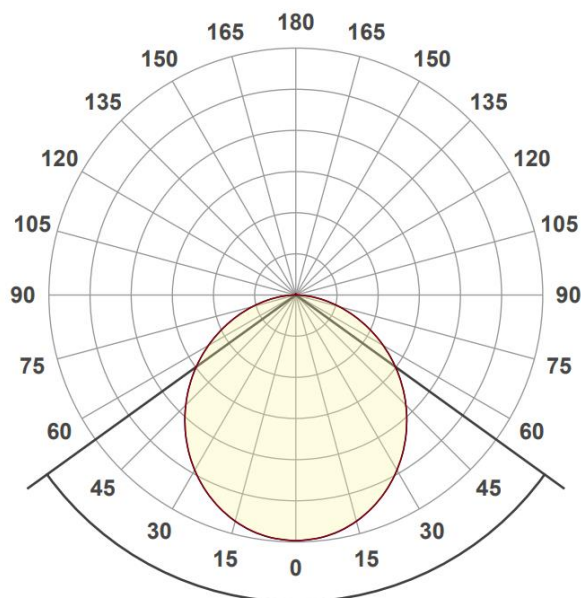
- 60 – 93% Light Transmission
- UV-stabilized
- Cost-efficient PS
- Mat/Mat surface
- Lower CO<sub>2</sub> footprint

The **Ingemann Haze series** is an excellent choice for applications where efficient lamp hiding and high transmissions are required. The diffusion comes from a combination of very fine structures and special diffusing additives developed by our

partner Sewon. It is a humidity resistant, cost-efficient solution with a lower CO<sub>2</sub> footprint than PMMA. The sheet contains a UV-stabilizing additive preventing it from yellowing. The Haze series is also coated with an antistatic spray to reduce surface tension.

### Product data

Material	PS - polystyrene
Standard dimensions	Rectangle up to 1850mm x 1250mm (Longer dimensions upon request)
Thickness	1,5mm ±0,1mm 2,0mm ±0,2mm (1,2mm – 3mm upon request)
Refractive index	1,591
Transmittance	Varies from 53%-93%
Temperature range	-40°C to +70°C



Measured light distribution curve, Ingemann Haze 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	209±3% µm
<b>Physical</b>	
Density	1,05g/cm <sup>3</sup>
Rockwell Hardness	150
<b>Optical</b>	
Transmittance	53% - 93%
Refractive index	1,591
Reflection	N/A
<b>Mechanical</b>	
Tensile strength	45MPa
<b>Thermal</b>	
Long term temperature	-40°C to +70°C
Short term temperature	90°C
Melting temperature	210°C
Surface	Structured on both sides
UV stable	Yes
Dirt depreciation	Anti-static treatment
Chemical resistance, PET	See next page
Thermal expansion	8K <sup>-1</sup> x 10 <sup>-5</sup>
Glow wire test IEC 60695-2-12	GWFI: 650/1,5 Results: Pass  Measured at: 650°C, 1,5mm thickness
Fire rating	N/A

Product	PS Diffusor Plate				
Thickness	Standard 1,5mm				
Total transmittance	53%	60%	70%	80%	93%
Diffusion coefficient	>80	>70	>50	>40	>1

### Chemical resistances - PS

Chemical resistances at 20°C			
Acetone	-	Ethyl acetate	-
Ammonia	+	Glycerin	+
Amyl alcohol	O	Fuel oil	O
Benzene, free from aromatics	-	Hexane	+
Benzole	N/A	Isopropanol	+
Boric acid	+	Coffee	N/A
Butanol	N/A	Caustic potash solution	O
Chlorinated hydro-carbon	N/A	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	+
Acidity of wine	N/A	Hydrochloric acid conc. 35%	+
Xylene	-	Sodium carbonate	+
Paraffin	+	Salad vinegar	N/A
Petroleum ether	-	Stearic acid	+
Phosphoric acid 10%	+	Tea	+
Sulphuric acid 10%	+	Turpentine	-
Nitric acid 10%	O	Toluene	-
Hydrochlorid 10%	+	Diluting agent	N/A

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