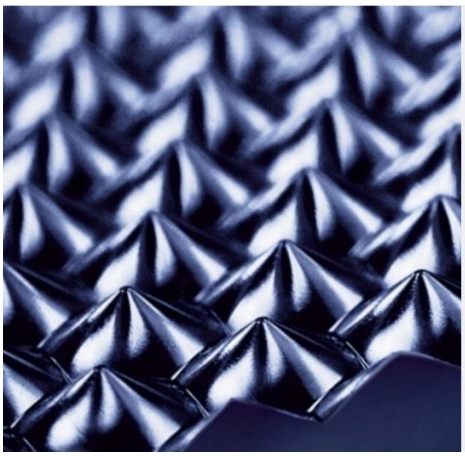
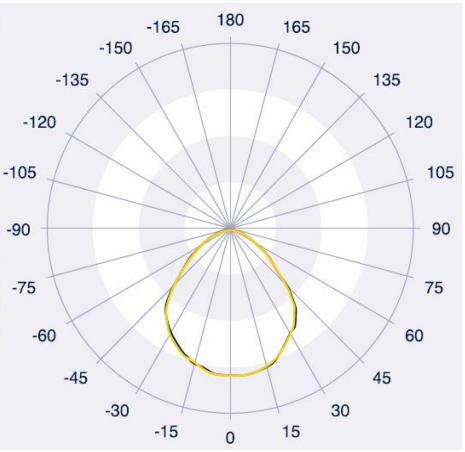
Ingemann Components

Conical De-glaring Prism

Jungbecker CDP





CDP

High transparent microstructured prisms that provides the de-glaring effect.

92% Transmission
2.5-5mm thickness
Max temp +80℃
Custom sizes available

Description:
CDP, or Conical De-glaring Prism is a high transparent material that has a microstructured prism surface which provides a unique de-glaring effect in the sheet of the plane. High efficiency, smooth de-glaring with opal appearance are the key features of this product. Grey colour material increases the de-glaring effect.

Application:
CDP is used in i.e. offices for optimal lighting and without the risk of glaring from the lamps.

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	PMMA clear acrylic: CDP (PC on request)
Available size	Rectangle up to 1850x1250mm
Thickness	Standard 3mm +0.2 to +0.5mm (2.5mm – 5mm upon request)
Cone diameter	2mm, variable cone diameter 1-3mm
Refractive Index	1.491
Transmittance	92% (acrylic clear)
Temperature Range	−40℃ to +80℃

Ingemann Components
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Denmark
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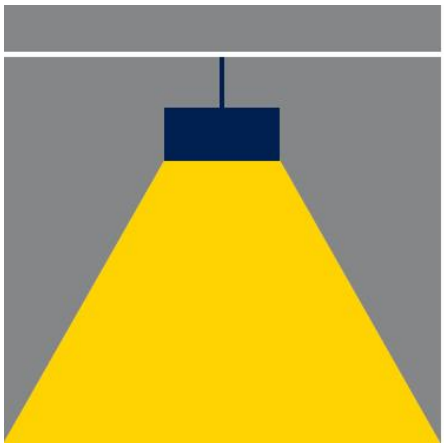
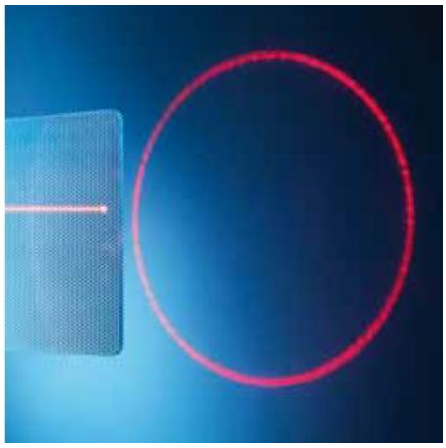
Technical Specs - CDP

Properties	3 mm	Notes
Physical –		
Density	$1.18\ g/cm^3$	
Rockwell Hardness	113	
Optical –		
Transmittance	92%	
Refractive index	1.491	
Reflection	N/A	
Mechanical –		
Tensile strength	$69.9\ MPa$	
Thermal –		
Long term temp.	−40℃ to +80℃	
Short term temp.	95℃	
Melting temp.	130℃	
Surface	Prismatic cones on one side, glossy on other side	
UV stable	Yes	
Dirt depreciation	Anti-static treatment	
Chemical Resistance		See next page
Thermal expansion	$7\ K^{-1}x10^{-5}$	
Glow wire test IEC 60695-2-12	N/A	
Fire Rating	PMMA	Class B2 (DIN 4102)





Processing options at Ingemann Components

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

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Chemical Resistances

CDP

Chemical resistance at 20℃			
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	+
Dioctyl 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

At 20℃ 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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