

PLASKOLITE

OPTICS BROCHURE



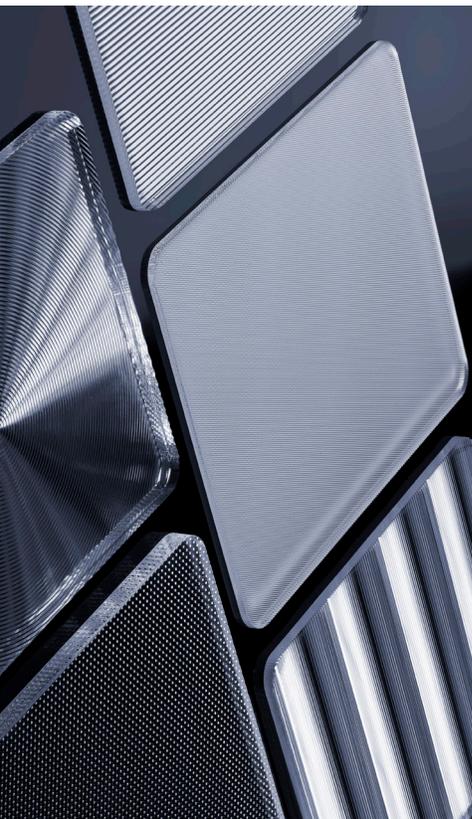
INTRODUCTION



PLASKOLITE is the industry leader in thermoplastic solutions for a wide range of lighting applications, including extruded sheet, custom extruded profiles, films, and lenses.

With production in the United States, PLASKOLITE delivers high-quality, reliable solutions to meet evolving market demands. The Jungbecker partnership expands this portfolio with advanced technologies that precisely steer light, reducing unwanted diffusion, minimizing light pollution, and enabling innovative and creative lighting designs.

PROFILE



SHEET



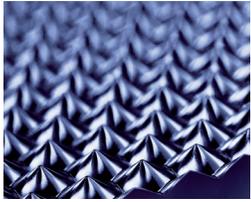
MOLDED OPTICS

PRODUCTION

Jungbecker's specific hot-embossing and injection molding technology enables precise light guiding solutions while ensuring the greatest possible efficiency.

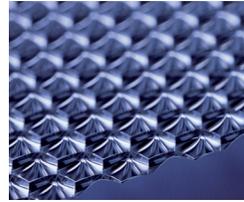
CUSTOMIZATION

Development and production of customized optical components and systems in plastics, from conception to production in sheets, profiles, and injection molded volumetric optics.



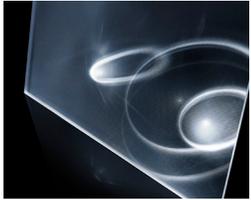
CONICAL DE-GLARING PRISM

CDP provides excellent de-glaring performance and strong UGR ratings. Cone-based design ensures high efficiency, smooth light distribution, and an opal appearance.



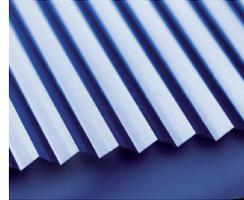
CONICAL DE-GLARING PRISM 15°

CDP15 combines the excellent de-glaring performance of the cone structure with an asymmetric deflection of the passing light rays. A tilt of the cones supports asymmetric illumination effects.



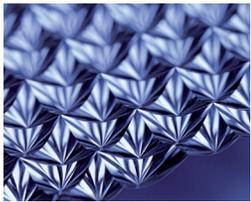
MICRO CONICAL DE-GLARING PRISM

Similar to CDP, with enhanced aesthetics by reducing the feature size and the options for material thickness 1mm - 3mm.



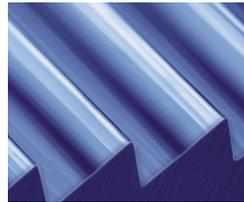
LINEAR DE-GLARING PRISM

LDP offers smooth and highly efficient de-glaring capabilities along the main axis of the sheet. Numerically optimized pyramidal structures with sharp edge radii are ideal for high precision light guiding applications.



DELTA DE-GLARING PRISM

DDP prism structure offers outstanding de-glaring performance with a reduced material thickness of 2mm only, providing almost the same mechanical stability as the proven structures in 3mm thickness.



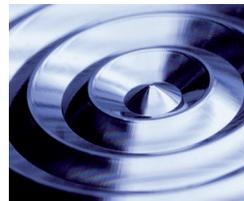
ASYMMETRICAL DE-GLARING PRISM

ADP uses one-sided prism geometry to asymmetrically deflect light, enabling directed illumination.



LINEAR PRISM 90°

Special geometry of perpendicular prisms for the LP90 efficiently solves: beam splitting, ray deflection, total reflection of perpendicular ray deflection incident light and much more.



CIRCULAR DE-GLARING PRISM

RDP is a special application of a circular Fresnel lens. Specifically optimized for smooth de-glaring, the linear prisms of our LDP are arranged circularly.



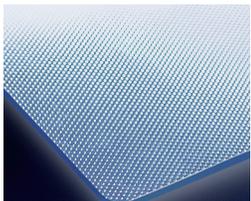
LINEAR SINE PRISM

LSP consists of linear prisms which are modified sinusoidally in their cross section. It works as an optical diffusor perpendicular to the main axis of the sheet, with the highest efficiency compared to opal materials.



CUSTOM EDGELIT TECHNOLOGY

Offers tailored LGP solutions with optimized light extraction and flexible designs for high efficiency and transparency.



LIGHT GUIDING PRISMATIC PLATE

LGP distributes side-fed light across surface using integrated prismatic optics, leveraging reflection and refraction for uniform, de-glared output.



INJECTION MOLDED OPTICS

Specialized in highly precise, tailored light guiding solutions, with expertise in thick walled large lenses with high aspect ratios, optimized for best performance and efficient series production.



CUSTOM MICROSTRUCTURES AND LENS ARRAYS

Large-scale precision microstructures tailored to application needs, offering flexible geometries and high efficiency.



exPRESS TECHNOLOGY

exPress technology offers the combination of extruded profile geometries and high precision microstructures for an outstanding de-glaring performance.



CUSTOM LINEAR AND CIRCULAR FRESNEL LENSES

Fresnel Lenses can be made as linear or circular, focusing or dispersing, single or multiple in one sheet, with high precision structure details

PLASKOLITE

PERFORMANCE PLASTIC
MANUFACTURING:
SHEET, POLYMER, PROFILES

1950
FOUNDED

OUR MISSION

TO PRODUCE INNOVATIVE ENGINEERING THERMOPLASTICS THE RIGHT WAY; THROUGH LONG-LASTING CUSTOMER RELATIONSHIPS, HANDS-ON CUSTOMER SERVICE AND RESPONSIBLE MANUFACTURING

MANUFACTURING LOCATIONS



GLOBAL
HEADQUARTERS
COLUMBUS, OH

PRIVATELY HELD
120+ PRODUCTION
LINES

2000+
EMPLOYEES

OUR PILLARS OF SUSTAINABILITY

CONTRIBUTING TO MAKE THE WORLD A BETTER PLACE

From our founding, we strive to treat our employees, our customers, our community and the world with kindness, dignity and respect. This drives our continuing effort to perform sustainable manufacturing and create products in an environmentally-friendly manner, for generations to come. This on-going commitment is expressed in our Three Pillars of Sustainability:

WHAT WE MAKE

Versatile, high-quality, durable thermoplastic sheets instead of single-use plastics.



HOW IT'S MADE

We create products to reflect our sustainable philosophy of improving our environment.



HOW IT'S USED

Our thermoplastics play an important role in advancing the well-beings of others, energy conservation, and quality of life.



These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.

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