polyRizer

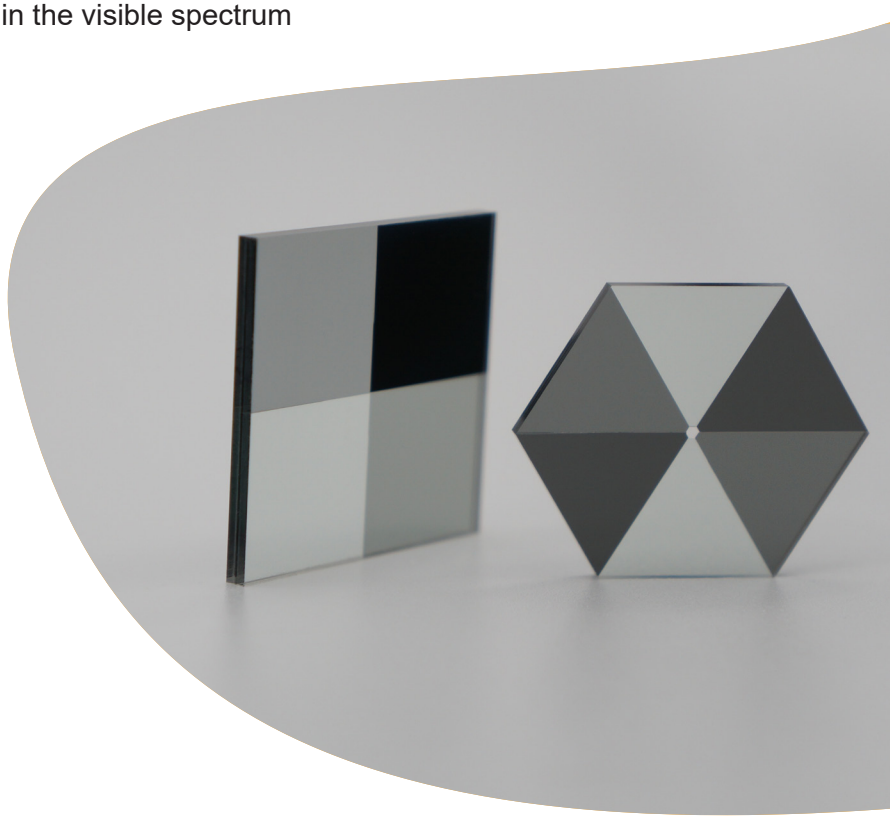
MAXIMUM OPTICAL PRECISION AND RELIABILITY

The new polymer polarizer combines the advantages of a thin, high-precision film with the durability and longevity of a superior optical glass. It is characterized by excellent transmission and high contrast in the visible spectrum, specifically optimized for RGB LEDs and low power laser applications. This polarizer is ideal for applications that demand both high durability and visual clarity.

- **Outstanding optical performance**
  Optimized transmission and contrast across the visible spectrum, perfect for sensors and imaging applications.
- **Precice polarisation**
  within the visible spectrum.
- **Durable and stable**
  The glass composite protects the film polarizer from environmental influences, extending its lifespan and ensuring maximum stability.
- **Neutral gray color**
  No color shift in the visible spectrum.
- **Polished**
  Enhances performance by reducing wavefront distortion and beam deviation, offering greater stability and reliability for demanding applications.

APPLICATIONS

- Display technology: Optimized visual displays with excellent contrast
- Optical filters: Precise polarization within the visible spectrum
- Low-power laser applications
- Camera based systems
- Optical sensors: surface inspection
- Light barriers or photoelectric sensors
- Microscopy
- Navigation
- 3D-Projection

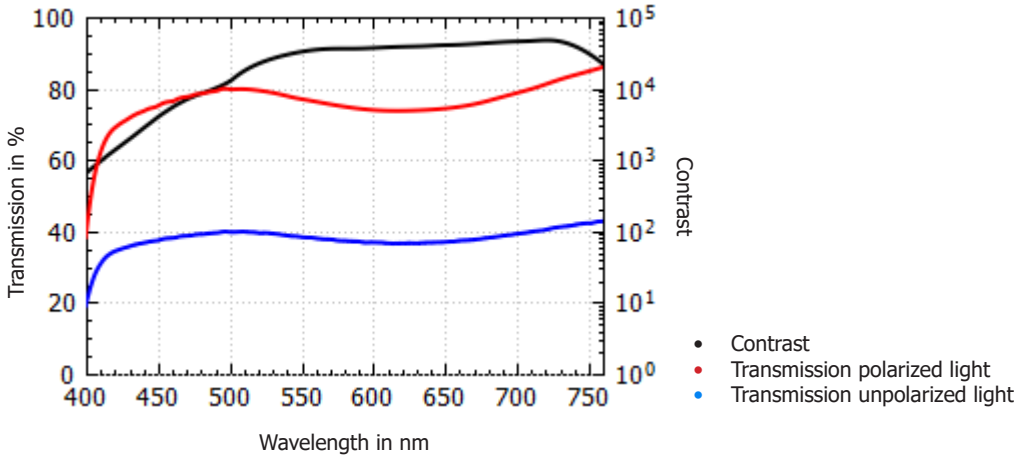


SPECIFICATIONS

Wavelength	400-760 nm
Contrast[1]	490 – 730 nm: C > 10,000 : 1 420 – 760 nm: C > 1,000 : 1
Transmission[2]	400 – 760 nm: T > 75% (polarized light) T > 37.5% (unpolarized light)
Polarization Axis	Accuracy to edge < 1°
Wavefront Distortion[3] at 633nm (over Ø10mm)	≈ 1λ
Thickness	1.7 ± 0.2 mm
Surface Quality	Scratch/Dig 60/40 (MIL-O-13830)
Operating Temperature	-20°C .. +70°C (-4°F ..+155°F)
AR Coating	Available upon request

[1]Typical values, [2]Values are averaged, [3]Lower wavefront distortion available upon request

CONTRAST AND TRANSMISSION



codixx AG

Innovation in Glass – Reliability & Quality

We develop and produce high-precision, customized polarizers and substrates that set new standards. Our products stand for the highest quality, long-lasting performance, and reliable availability.

Manufactured in Germany and supported by stable supply chains, we offer our customers maximum planning security and reliability – even for demanding applications.

Life Science **Communication** **Security**

more details at
codixx.com