

## Why Glass for Lasers

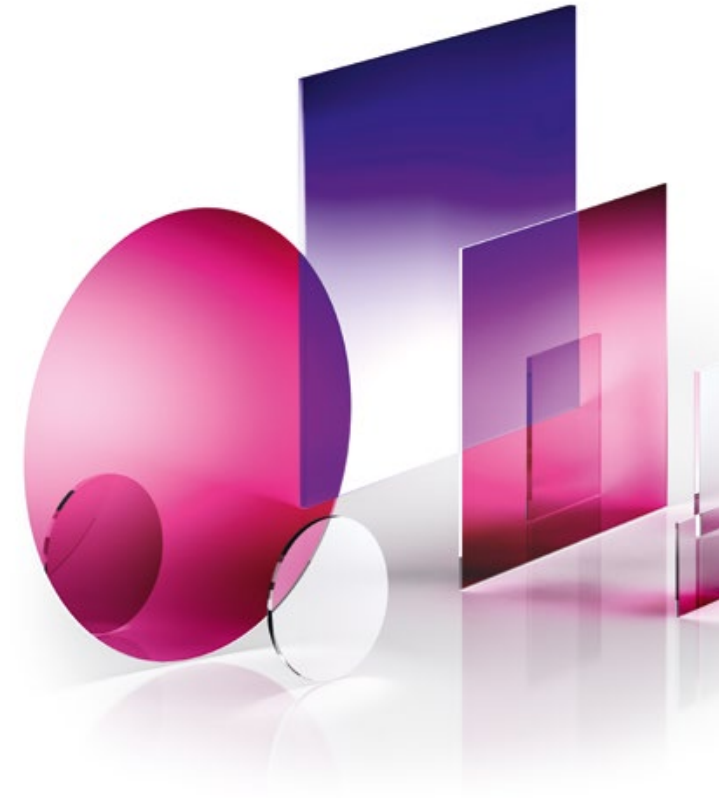
### Material characteristics

- Specified laser damage threshold
- Stable thermal behavior
- Operating temperature -80 °C up to 400 °C
- Very low thermal expansion coefficient
- Fire resistant (not flammable)
- No aging, i.e. stable mechanical properties
- Excellent surface hardness
- Easily recyclable
- No outgassing

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# GLASS OPTICS & COATINGS FOR LASERS

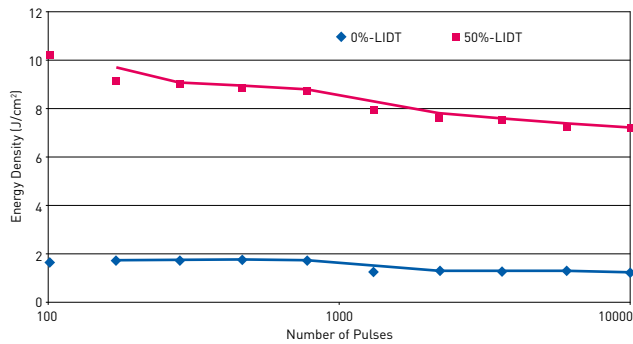


# Precision Glass Optics & Coatings for Lasers

## Thin Films for your System

- Laser damage threshold 1.63 J/cm<sup>2</sup> @ 532 nm
- Coating on various materials (e.g. Borofloat, Sapphire, BK7)
- High temperature-resistant coatings
- No wavelength shift with temperature increase

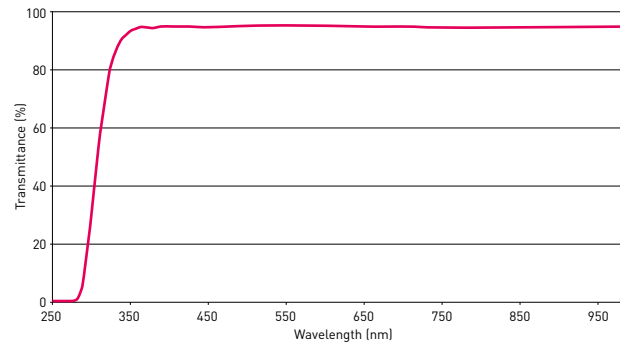
## Laser Damage Threshold (Filter Coating)



## Glass – Your Material Engineering Choice

- Laser damage threshold > 4 kW @ 532 nm CW
- Low thermal expansion coefficient at  $4.1 \times 10^{-6}/K$
- Operation temperature up to 400 °C
- Excellent surface finishing straight from the press with S/D 40/20

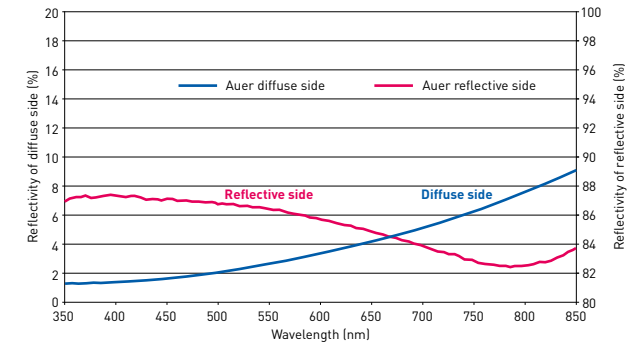
## Transmittance of SUPRAX® [5 mm Thickness]



## Metallic High-end Coatings

- High temperature resistance up to 400 °C for 30 min
- Long term stability up to 250 °C
- 24 h @ 50 °C and 96% rF
- Absolutely pinhole free

## Example of Auer's Gobo Coating



Reflectivity glass/aluminium > 85%,  
Reflectivity on diffuse side < 4% @ 550 nm

## Product Range

- Mirrors
- Highly diffusing thin films
- Semi-transparent coatings
- Coatings on glass and metal available
- Others on request

