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
Precision Glass Optics & Coatings for Lasers

Thin Films for your System
- Laser damage threshold 1.63 J/cm² @ 532 nm
- Coating on various materials (e.g. Borofloat, Sapphire, BK7)
- High temperature-resistant coatings
- No wavelength shift with temperature increase

Glass – Your Material Engineering Choice
- Laser damage threshold > 4 kW @ 532 nm CW
- Low thermal expansion coefficient at 4.1 x 10⁻⁶/K
- Operation temperature up to 400 °C
- Excellent surface finishing straight from the press with S/D 40/20

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

Laser Damage Threshold (Filter Coating)

Transmittance of SUPRAX® (5 mm Thickness)

Example of Auer’s Gobo Coating

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