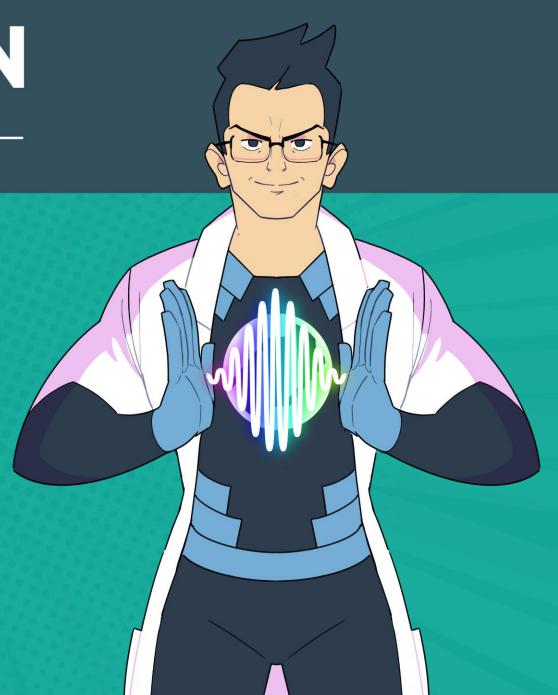


YOUR SIDEKICK FOR LASER OPTICS DEVELOPMENT

SUPERHERO POWER MIRRORS FOR TI:SAPPHIRE MIRRORS



### OPTICS FOR TI:SA LASERS

Ti: Sapphire lasers, featuring relatively broad emission wavelengths, typically between 700 nm and 900 nm, sometimes even 650-1100 nm, are the tough challenge for optical coatings manufacturers. Especially when you combine such a broad spectrum together with high power few tens of femtoseconds pulses.

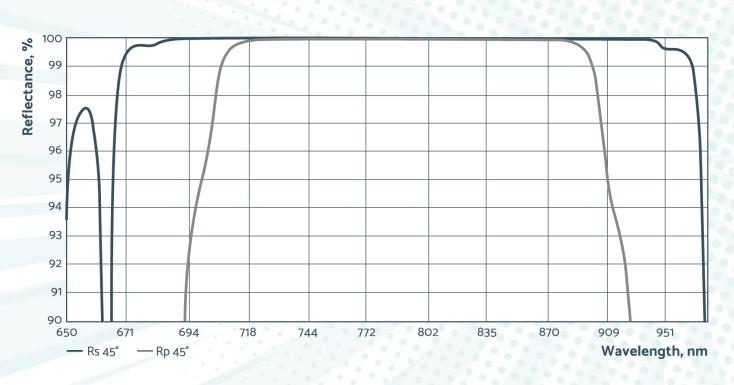
However, optical components shouldn't cause a headache for laser manufacturers. So if you're still looking for **durable**, **long-lasting**, **high LIDT** optics for your Ti:Sapphire laser, congratulations – you're at the right place!

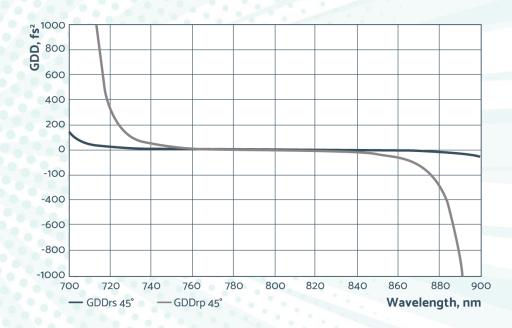




# DESIGN EXAMPLE

## Rp>99.9% @ 730 - 870 nm + Rs>99.9% @ 700 - 920 nm, AOI=45° (low GDD)







### LIDT MEASUREMENT

### Rp>99.9% @ 730 - 870 nm + Rs>99.9% @ 700 - 920 nm, AOI=45° (low GDD)

#### LASER PARAMETERS

Central Wavelength: 800 nm

Pulse duration (FWHM): (47 ± 5) fs Repetition rate/frequency: 100 Hz

Angle of incidence: 45 deg

#### **TEST PROCEDURE**

Test type: S-on-1 (10k-on-1), R-on-1

Test environment: vacuum  $\rightarrow$  1, 5 \* 10–5 mbar

S polarization LIDT: 1.397 J/cm<sup>2</sup> P polarization LIDT: 0.71 J/cm<sup>2</sup>

**NO COLOR CHANGE** 

