

coating 140831

Sputtered optical coating on Fused Silica
Protected silver mirror

Optimized for 800-2000nm

HR(0°,800-2000nm)>97%
HRs(45°,800-2000nm)>98%
HRp(45°,800-2000nm)>97%

/ GDD-Rs,p(0-45°,800-2000nm) / < 5 fs²

For polarization sensitive and ultrafast applications

6/ 5 J/cm² at 1064nm 7 ns 10 Hz Ø_{beam} 480 µm
6/ 0.7 J/cm² at 795nm 42 fs 1 KHz Ø_{beam} 80 µm

Please note:

Silver coatings with protective layer are soft and can easily be damaged by mechanical contact. Hard cleaning with tissues will lead to scratches. Compressed clean, dry air is recommended to blow off dust. Layertec suggests latex gloves for handling (held by the sides).

fig. 1 Perkin Elmer Lambda 950 – absolute reflection measurement AOI 10°

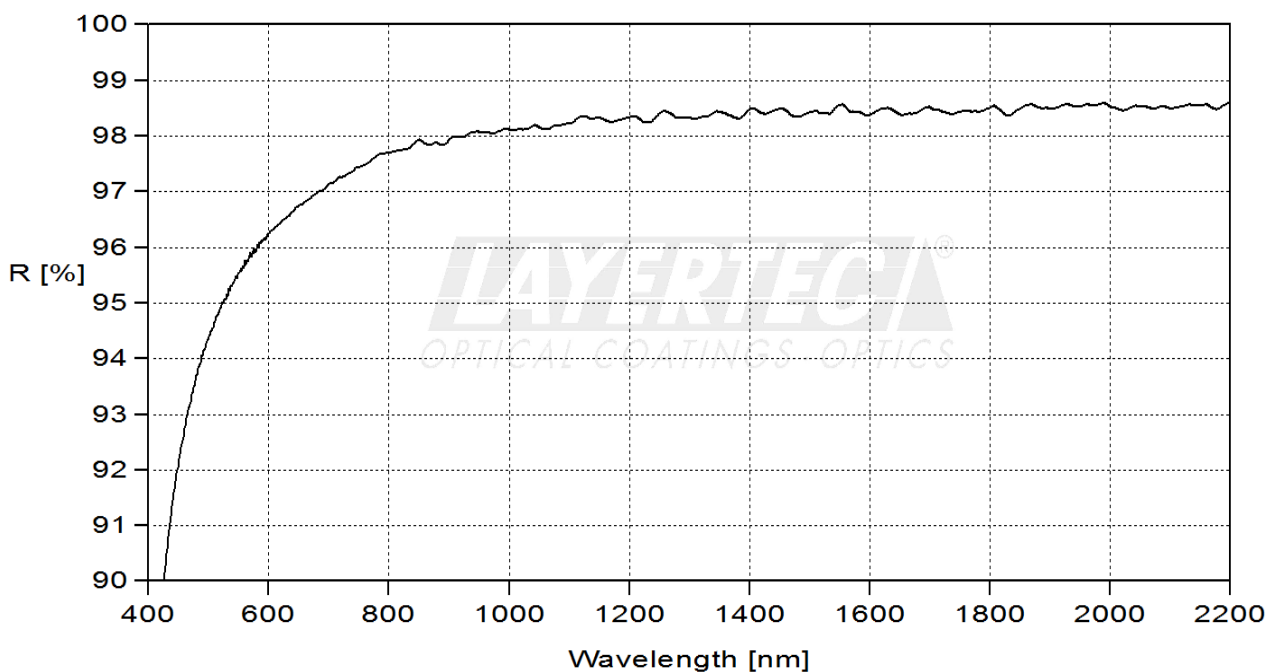


fig. 2 Perkin Elmer Lambda 950 – absolute reflection measurement p-pol. AOI 45°

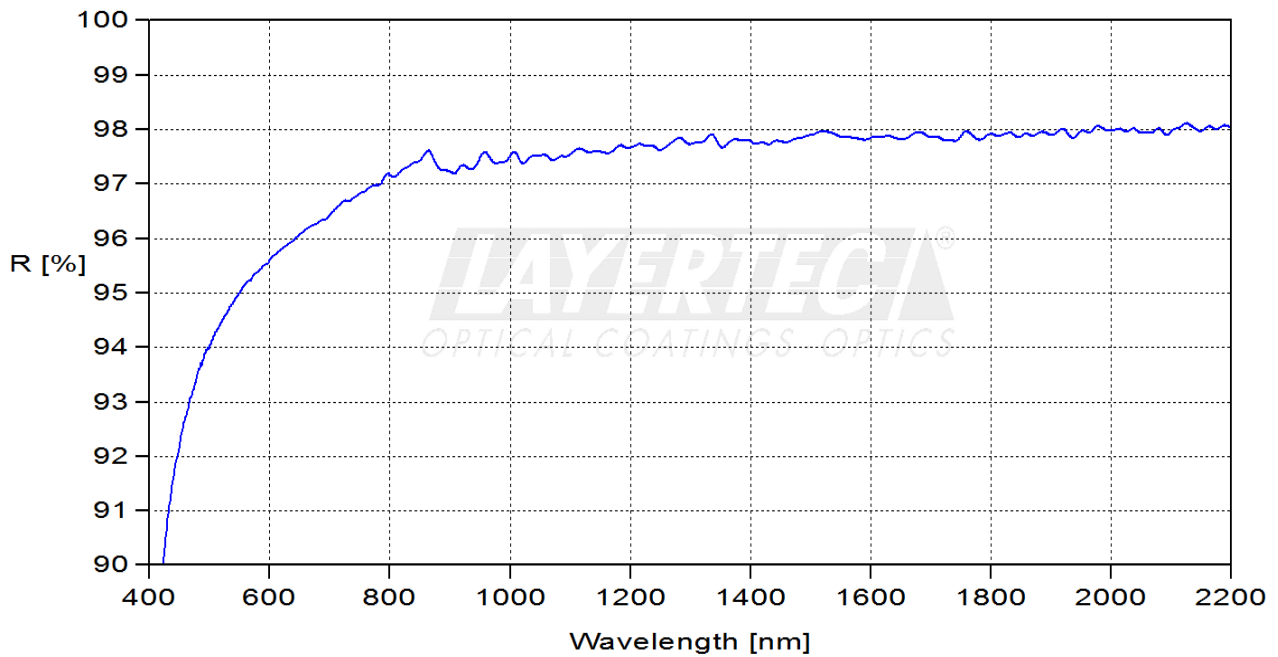


fig. 3 Perkin Elmer Lambda 950 – absolute reflection measurement s-pol. AOI 45°

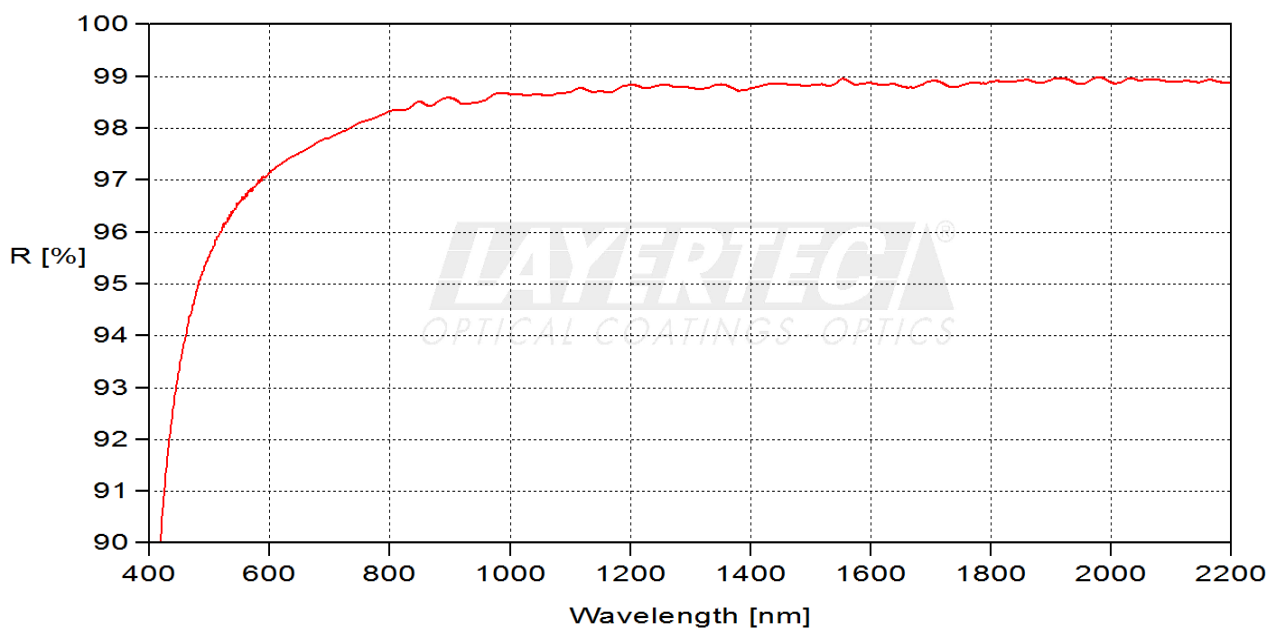


fig. 4 Perkin Elmer Lambda 950 – absolute reflection measurement – overview

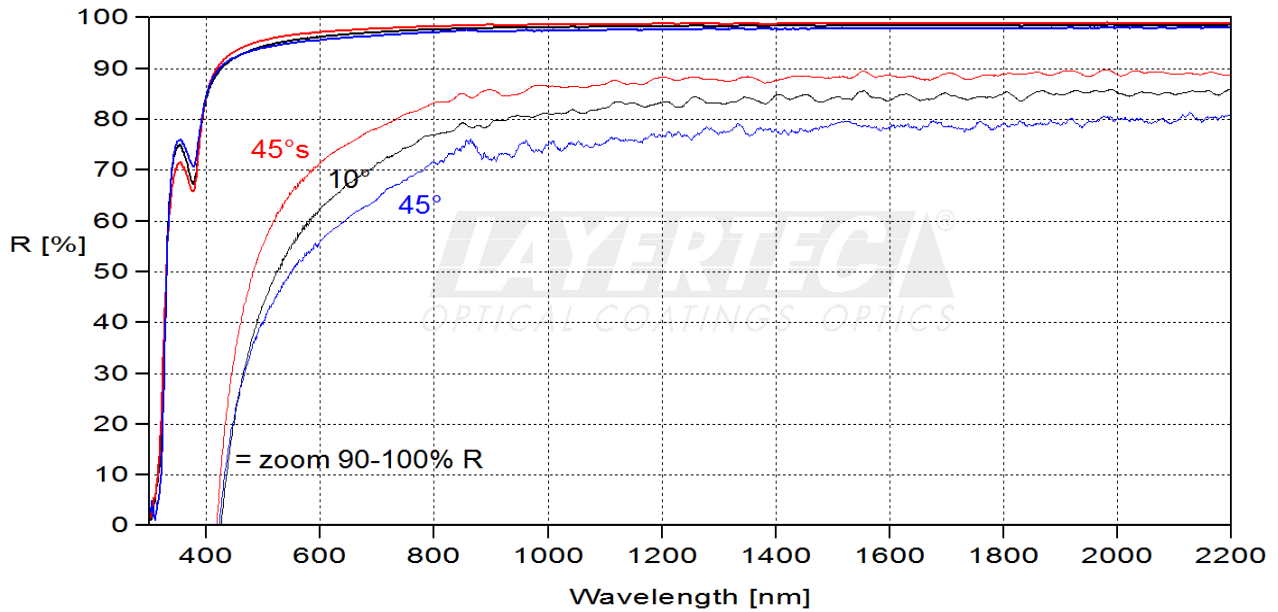


fig. 5 calculated GDD-R at 0 and 45°

