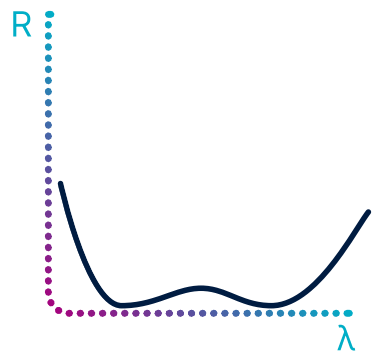
Anti-reflective Coatings (AR)

One of the most common coatings for optical applications are reflection-reducing coating systems, also known as anti-reflective (AR) coatings or anti-reflection coatings. By reducing reflections on surfaces, disturbing light for the observer is avoided. Furthermore, higher transmission and improved contrast are achieved.



Applications

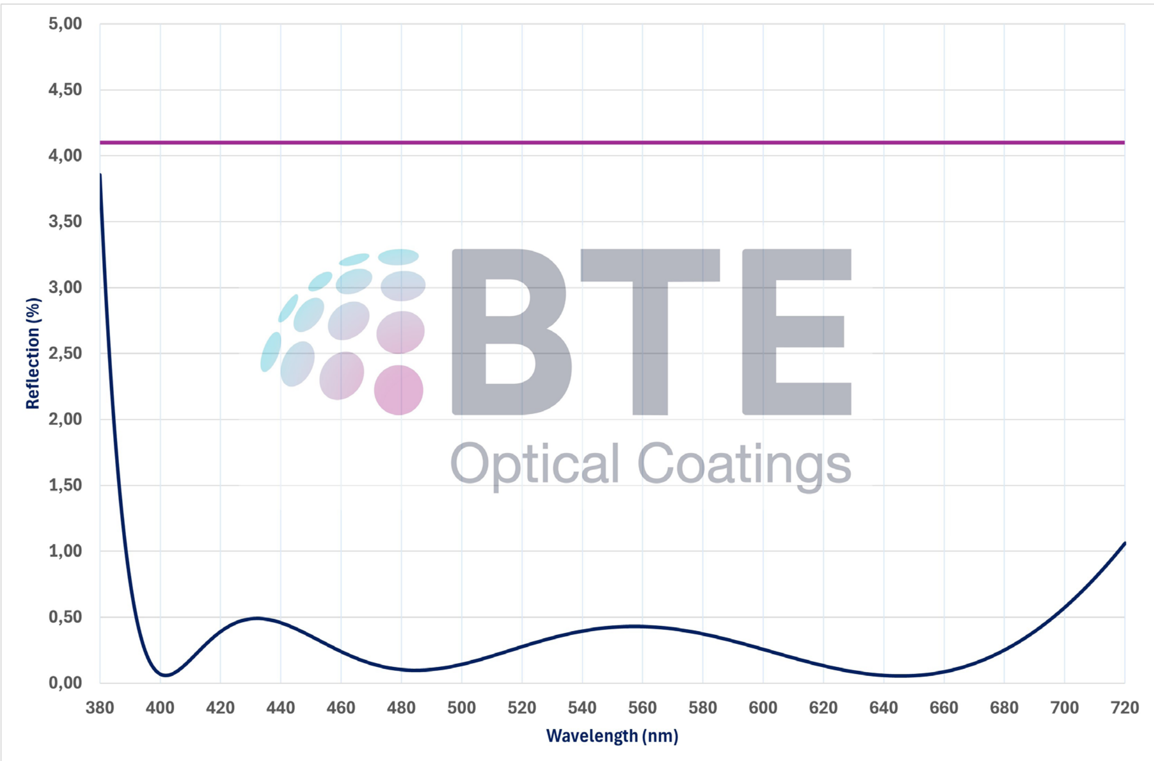
Displays, imaging systems,
laser applications

Substrates

Glass (Borofloat n_d=1,52, B270, Float glass usw.),
Plastics (Zeonex, PC, PMMA with hard varnish, ...)

Principle Curve AR-M

Ex.: R_avg <0,5% (400nm - 700nm); AOI=0°-10° (Purple: reflection uncoated glas)



Type Description

Single anti-reflection coating MgF2 (AR-E)
AR-E: R ≤ 1,5 % at lambda 0 (e.g. 550 nm),
i = 0°-10°

Broadband anti-reflection coating VIS (AR-M)
AR-M: R_avg ≤ 0,5 % (400-700 nm),
i = 0°-10°

UV anti-reflective coating (AR-UV)
AR-UV: R_avg ≤ 0,5 % (400-700 nm),
i = 0°-10°

Laser anti-reflection coating
AR-V: R ≤ 0,15 % at lambda 0 (e. g. 633 nm),
i = 0°

Ant-reflection coating IR (AR-IR)
AR-IR: R_avg ≤ 0,5 % (800-1100 nm),
i = 0°-10°

Can be adapted to other angles of incidence.

Other specifications according to customer possible.

Stability

Abrasion: DIN ISO 9211-1-04
Adhesive strength: DIN ISO 9211-2-03
Moist heat: DIN ISO 9211-5-03
Temperature: über 200°C
More on request.

You need other specifications?

Don‘t hesitate to contact us:

sales@bte-born.de

Principle Curve AR-V

Ex.: R_abs <0,2% (633nm); AOI=0°-10° (Purple: reflection uncoated glas)