193 | 213 | 248 | 266 | 308 | 325 | 337 | 343 | 351 | 355 | 375 nm

ArF - KrF - XeCl - HeCd - $N_2$ - XeF - Alexandrite
3rd, 4th, 5th of Nd:YAG/$YVO_4$ - Yb:YAG

# UV / Excimer 180-379 nm

## Coating types


**VAR**
DAR
TAR
BBAR
MAR
WAR

**VAR**

| λ [nm] | AR (0°); R < | | method | AR (45°); R < | | method |
|---|---|---|---|---|---|---|
| 193 | 0.5% | | EBE | 0.75% | | EBE |
| 248 | 0.25% | | EBE | 0.75% | | EBE |
| 266 | 0.25% | | EBE | 0.6% | | EBE |
| 355 | 0.2% | | EBE | 0.6% | | EBE |
| | 0.05-0.1%* | low loss | IBS | 0.1-0.6%* | low loss | IBS |

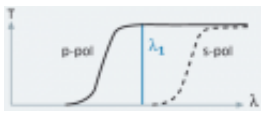
* depending on price, substrate size and laser power


**HR**
DHR
BBHR
MHR
WHR
Metal

**HR**

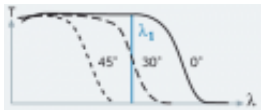
| λ [nm] | HR (0°); R > | | method | HR (45°); R > | | method |
|---|---|---|---|---|---|---|
| 193 | 96% | | EBE | 92% (goal 96%) | | EBE |
| | 96% (goal 98%) | on Fluoride | EBE | 95% | on Fluoride | EBE |
| 213 | 98% | | EBE | 97% | | EBE |
| 248 | 99.5% | | EBE | 99% | | EBE |
| 266 | 99.5% | | EBE | 99.5% | standard | EBE |
| | 99.5% | | IBS | 99.5% | high power | MS |
| 308 | 99.5% | | EBE | 99.2% | | EBE |
| | 99.7% | | IBS | 99.7% | | IBS |
| 343 | 99.5% | | EBE | 99.2% | | EBE |
| 351 | 99.5% | | EBE | 99.2% | | EBE |
| 355 | 99.5% | high power | MS | 99.5% | standard | EBE |
| | 99.9% | low loss | IBS | 99.9% | low loss | IBS |
| | | | | 99.5% | high power | MS |

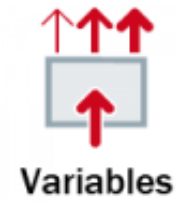

**TFP**
CP
BBPOL




**TFP**

| λ [nm] | | AOI | method |
|---|---|---|---|
| 193 | Tp > 80%, Ts < 10% | 73° | EBE |
| 248 | Tp > 80%, Ts < 2% | Brewster | EBE |
| 266 | Tp > 90%, Ts < 2% | Brewster | EBE |
| 355 | Tp > 94%, Ts < 2% | Brewster | EBE |
| | Tp > 96%, Ts < 0.2% | Brewster | IBS |



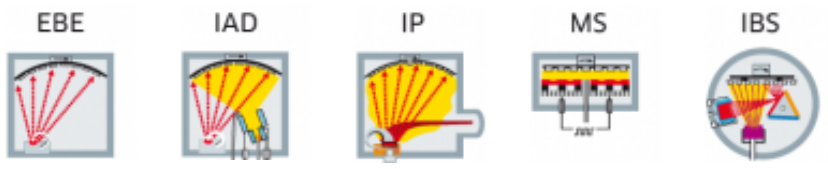

VA
GOC
GP
GNF
GIF

**VA**

| λ [nm] | 0° → 45°; T = | | method |
|---|---|---|---|
| 193 | 80% → 10% | | EBE |
| 248 | 90% → 2% | standard | EBE |
| | 95% → 1% | high power | MS |
| 266 | 92% → 1% | standard | EBE |
| 355 | 92% → 1% | standard | EBE |
| | 92% → 1% | non-shifting | IAD |

All values are given for standard coatings. Customized coatings available for all types.

Coating methods available:




## Examples

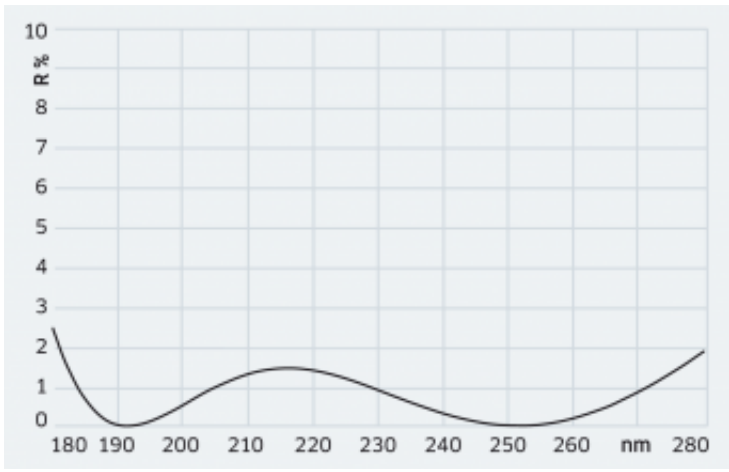
If not mentioned otherwise, all values and diagrams are given

... for the standard substrate material used in the described wavelength area (mostly Fused Silica or $CaF_2$).

... without consideration of the rear surface.

... with EBE coating technique for a good cost-performance ratio.

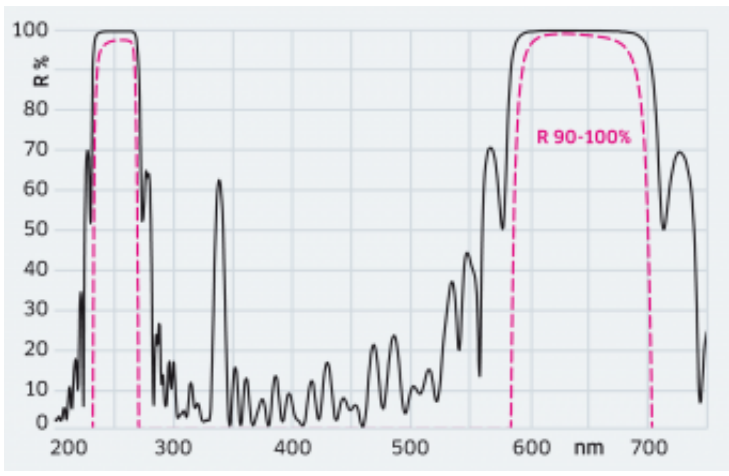
Customized coatings are available for all types.




[B-00790]

**AR 193 nm + 248 nm / 0°**

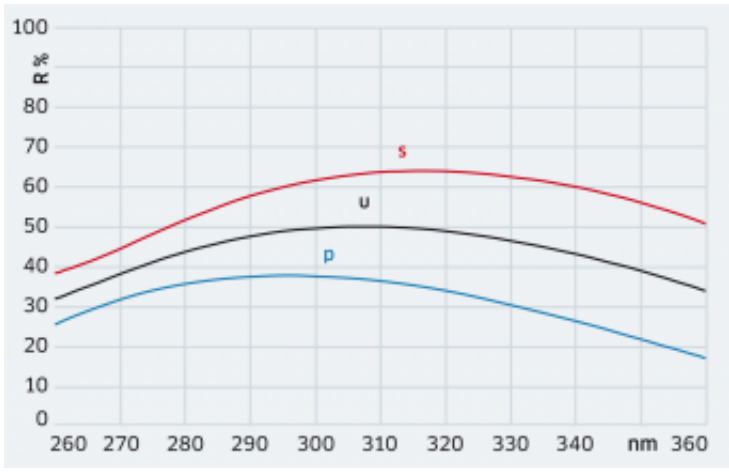
*193 nm: R < 0.5%; 248 nm: R < 0.5%*




[B-03680]

**HR 248 nm + 633 nm / 45°**

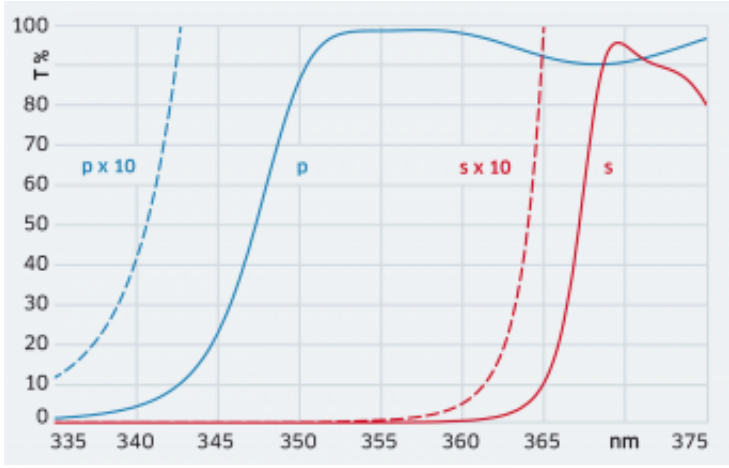
*248 nm: R > 99%; 635 nm: R > 98%*




[B-01937]

**R 50% 308 nm / 45°**

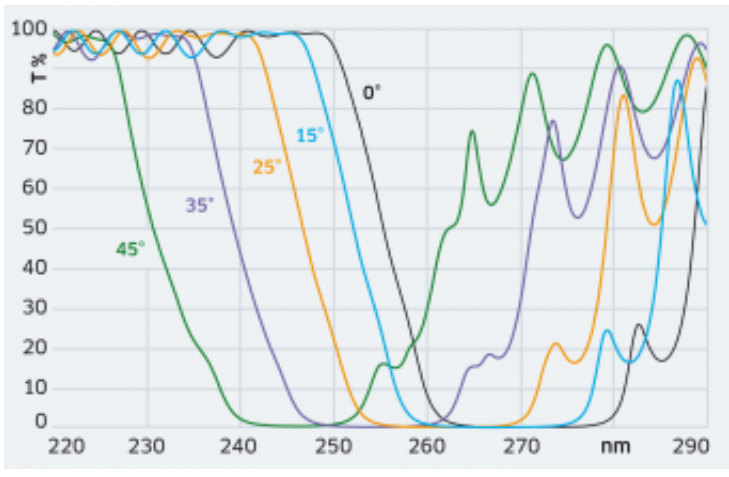
*308 nm: R ±3%*




[B-11227]

**TFP 355 nm / 55.9°**

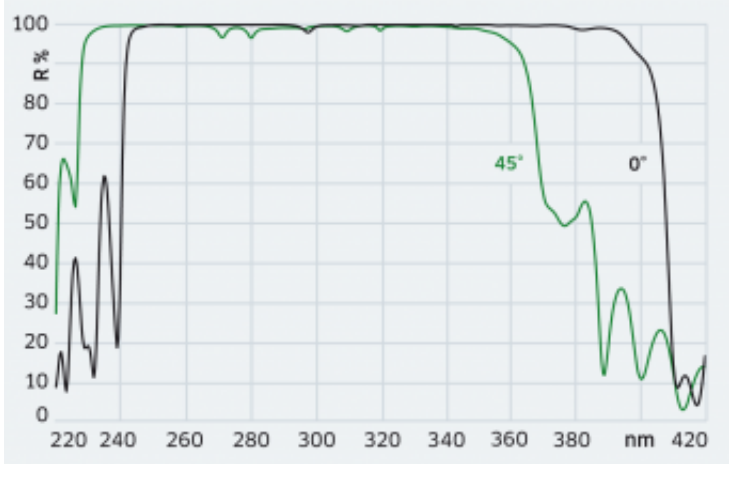
*355 nm: Tp > 96%, Ts < 0.2% (IBS-coating)*




[B-07573]

**VA 248 nm / 0-45°**

*248 nm: 0° -> 45°; T = 95% -> 1% (MS-coating)*




[B-07720]

**HR 250-350 nm / 0-45°**

*250-350 nm: Ravg > 98.5%*

top

« VUV / Excimer 120-179 nm VIS 380-779 nm »