

복수의 Plot

1. Design File 생성

Layer	Material	Refractive Index	Extinction Coefficient	Optical Thickness (FWOT)	Physical Thickness (nm)
Medium	Air	1.00000	0.00000		
1	MgF2	1.38542	0.00000	0.25000000	92.03
Substrate	Glass	1.52083	0.00000		
				0.25000000	92.03

1-1. Plot 설정

Performance Parameters

Horizontal Axis | Vertical Axis | 2nd Vertical Axis

Wavelength (nm)

Automatic Scale

Maximum Value: 700

Minimum Value: 400

Interval for Plot: 100

Interval for Table: 20

Layer Number: 1

OK

Plot

Plot Overlay

Active Plot

Table

Cancel

Performance Parameters

Horizontal Axis | **Vertical Axis** | 2nd Vertical Axis

Reflectance Magnitude (%)

Automatic Scale

Maximum Value: 100

Minimum Value: 0

Interval for Plot: 20

Polarization: P S Mean

Add to Label

Context: Normal

Derivative: 0

Incident Angle (deg): 0.00

Wavelength (nm): 510.00

Temperature Offset (deg C): 0

Add to Label

Add to Label

Add to Label

Add to Label

Unwrap Phase

OK

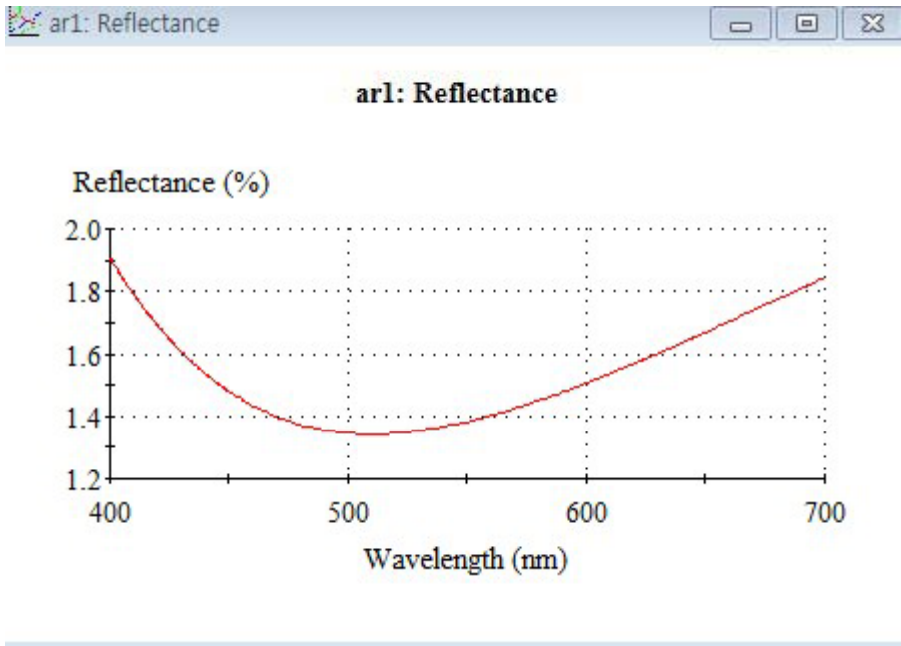
Plot

Plot Overlay

Active Plot

Table

Cancel



그래프 선에 마우스를
놓고 왼쪽 버튼 더블 클릭,

Edit Trace

Trace

Visible Hidden Excluded

Y axis: Y1 Y2

Label
Single Layer

Line Style

Pattern: Solid

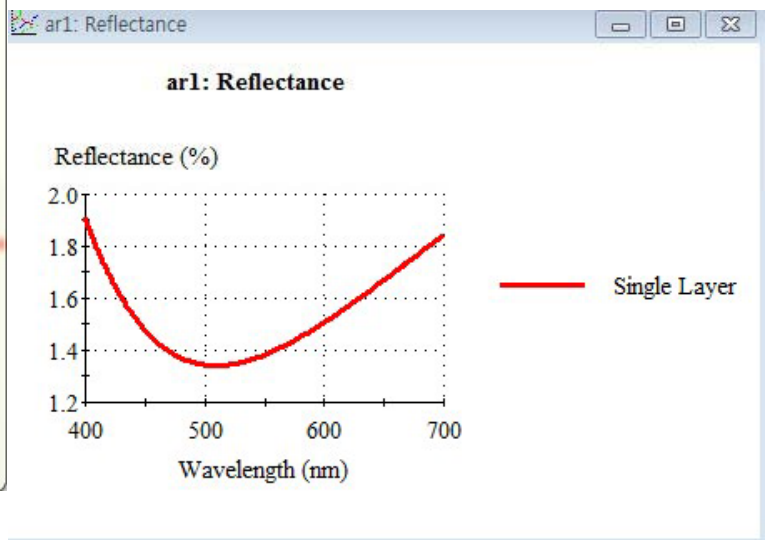
Width: 3 Color: Red

Symbol Style

Shape: DiagonalCross

Size: 0 Color: Black

Edit Trace



라인에 스타일 부여

Plot 창에 마우스를 놓고 오른쪽 버튼 클릭

Reflectance

avelength (nm)

- Copy
- One to One Aspect Ratio
- Clear Cursor
- Apply Template...
- Edit Header
- Edit Footer
- Edit Legend**
- Edit Label
- Edit All Properties
- Identify Y Axes
- Unidentify Y Axes
- Add Label...
- Add Cursor as Label...
- Statistics...

Edit Legend

Edit Legend

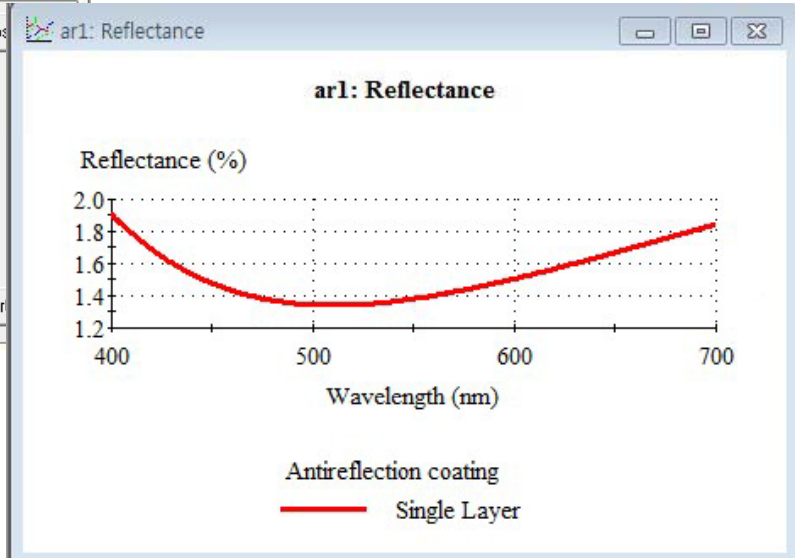
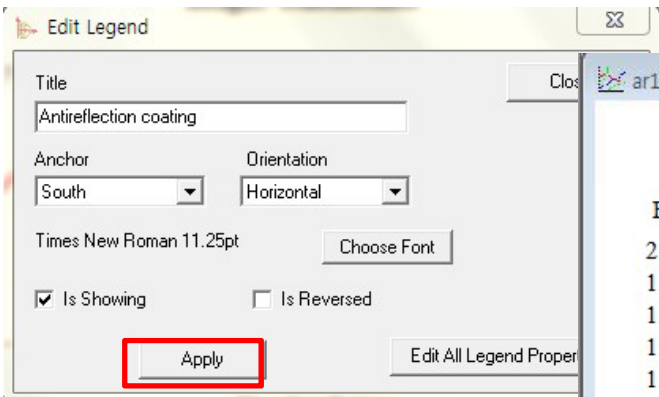
Title
Antireflection coating

Anchor: South Orientation: Horizontal

Times New Roman 11.25pt Choose Font

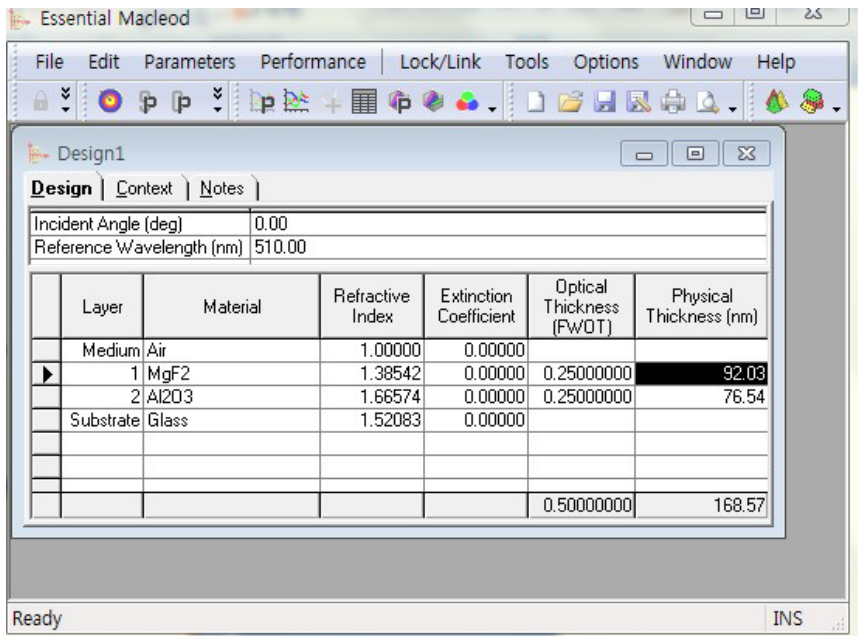
Is Showing Is Reversed

Apply Edit All Legend Properties



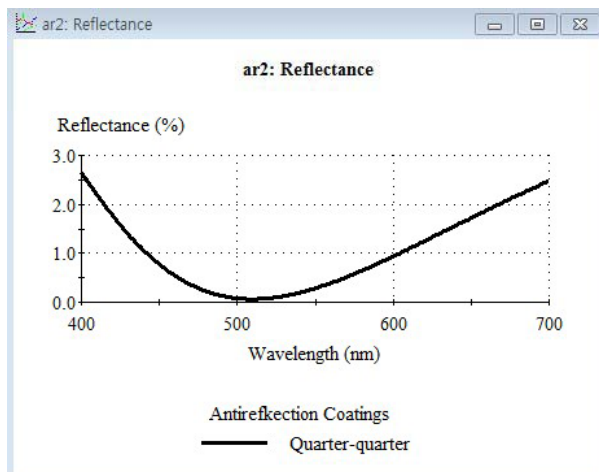
“File > Save as” 로 저장
(filename.npl) 차후 해당 디자인 파
일을 열고 Plot 창을 띄운 후
“File > Open” 불러 사용.

2. Design File 생성



같은 방식으로 하여 Plot

Line 색은 검정으로



두 개의 Plot창을 열어 놓은 상태에서 Single Layer Graph를 마우스 왼쪽 버튼으로 누른 상태에서 Quarter-quarter로 끌어 옮기면 아래와 같이 합성되어 나타납니다.

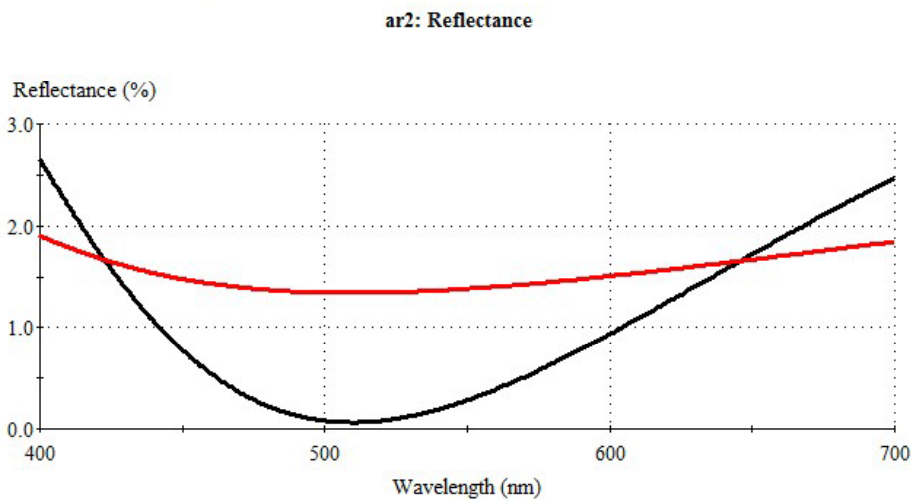


그림2-1

Antireflection coating
 — Quarter-quarter — Single Layer

그림2-1. "File>Save as" Plot을 저장.

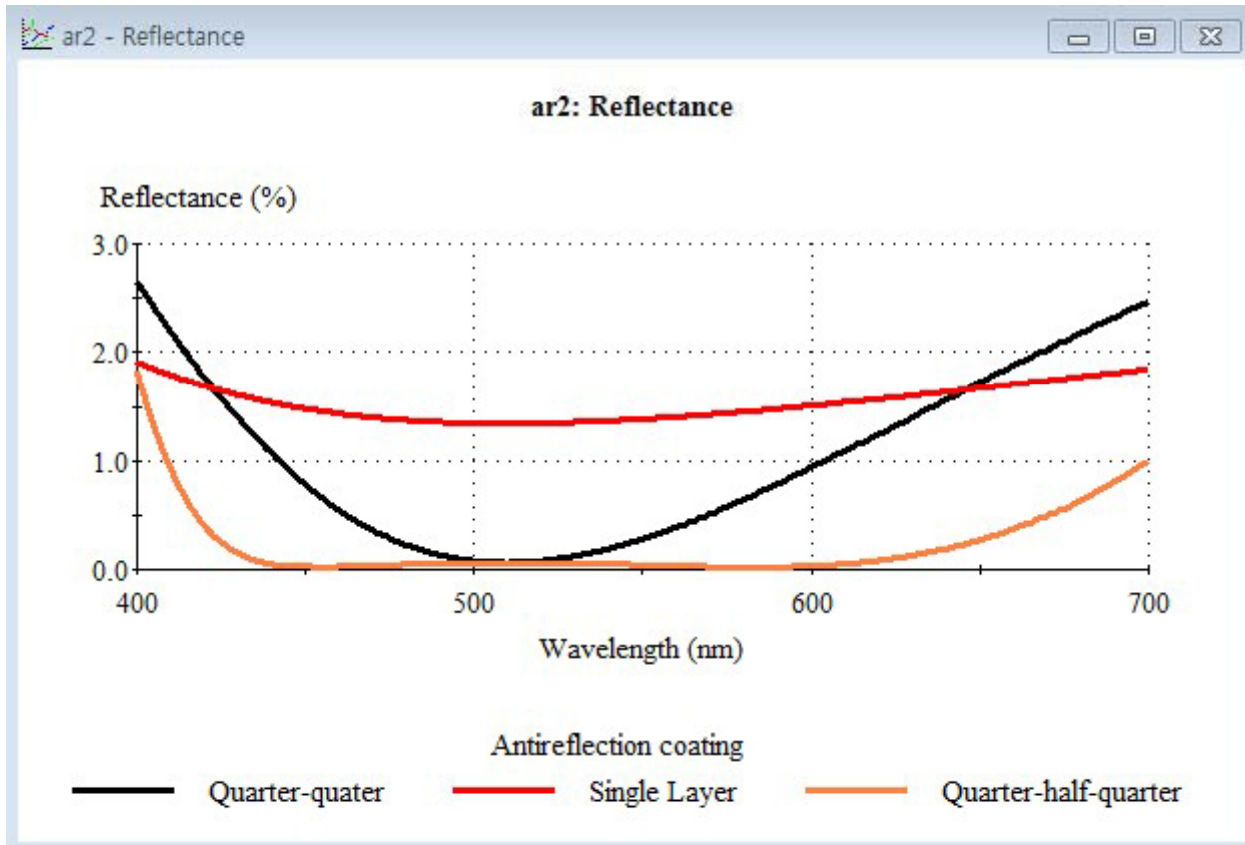
3. Design File 생성

같은 방식으로 Line 색은 다른 색으로 선정하여 Plot

Layer	Material	Refractive Index	Extinction Coefficient	Optical Thickness (FWOT)	Physical Thickness (nm)
Medium	Air	1.00000	0.00000		
1	MgF2	1.38542	0.00000	0.25000000	92.03
2	Ta2O5	2.14455	0.00000	0.50000000	118.91
3	Al2O3	1.66574	0.00000	0.25000000	76.54
Substrate	Glass	1.52083	0.00000		
				1.00000000	287.48

그림2-1 Plot 파일을 오픈 ("File>Open")

"Quarter-half-quarter" Graph를 마우스 왼쪽 버튼으로 누른 상태에서 끌어 그림2-1 Plot 파일로 옮기면 아래와 같이 합성되어 나타납니다.



"Performance > Table"

Table 파일로 파장대별 결과 내용을 볼 수가 있습니다.

Parameters Performance Lock/Link Tools

Plot Plot Over Table Errors... Color... Active Plot 3D Plot

ar3

Design Context

Incident Angle (deg)

Reference Wavelength (nm) | 510.00

ar3: Performance

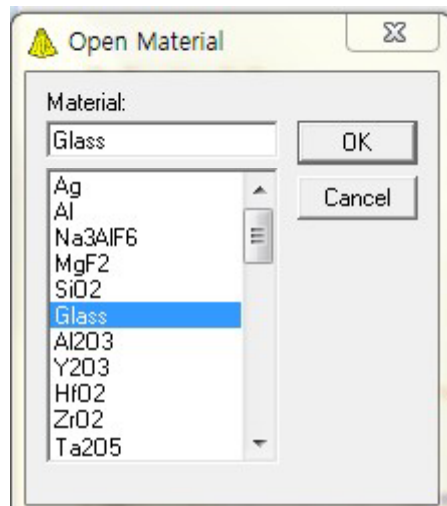
Table Notes

Design	ar3				
Reference Wavelength (nm)	510.00				
Incident Angle (deg)	0.00				
*					
	Wavelength (nm)	Reflectance (%)	Transmittance (%)	Reflectance-Phase (deg)	Transmittance-Phase (deg)
▶	400	1.826210	98.173790	-59.885566	-108.954234
	420	0.407892	99.592108	-51.468806	-83.513509
	440	0.049183	99.950817	-72.867632	-60.576291
	460	0.028117	99.971883	-139.384037	-40.678884
	480	0.047423	99.952577	-166.950109	-23.357162
	500	0.062143	99.937857	-176.804816	-7.465739
	520	0.062876	99.937124	177.035207	7.178312
	540	0.051274	99.948726	169.991517	20.730946
	560	0.034287	99.965713	157.212855	33.316615
	580	0.023151	99.976849	129.516275	45.042660
	600	0.033545	99.966455	91.971214	56.001950
	620	0.083826	99.916174	71.285665	66.264706
	640	0.191633	99.808367	63.780884	75.908354
	660	0.372494	99.627506	62.038467	84.981905
	680	0.627519	99.362481	62.892911	93.523536

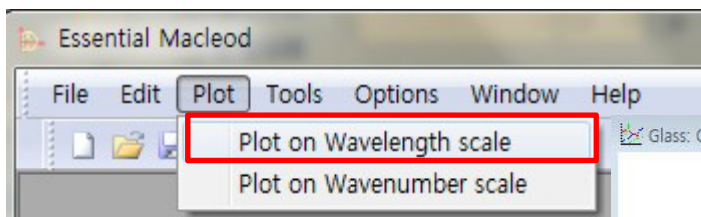
"File > Save as"
Table 파일로 저장
합니다.
(Filename.tbl)

Material Plot

File > Open Material



Wavelength (nm)	Refractive Index	Extinction Coefficient
300.00	1.55277	0.00001
310.00	1.54942	0.00000
320.00	1.54643	0.00000
334.10	1.54273	0.00000
350.00	1.53917	0.00000
365.00	1.53627	0.00000
370.00	1.53539	0.00000
380.00	1.53374	0.00000
390.00	1.53224	0.00000
400.00	1.53085	0.00000



해당 Design File을 열고
Plot을 한 다음, "Graph를 마우스 왼쪽 버튼으로 누른 상태에서 끌어 디자인 Plot 창으로 옮기면 아래와 같이 합성되어 나타납니다.

