Optical Set-Up

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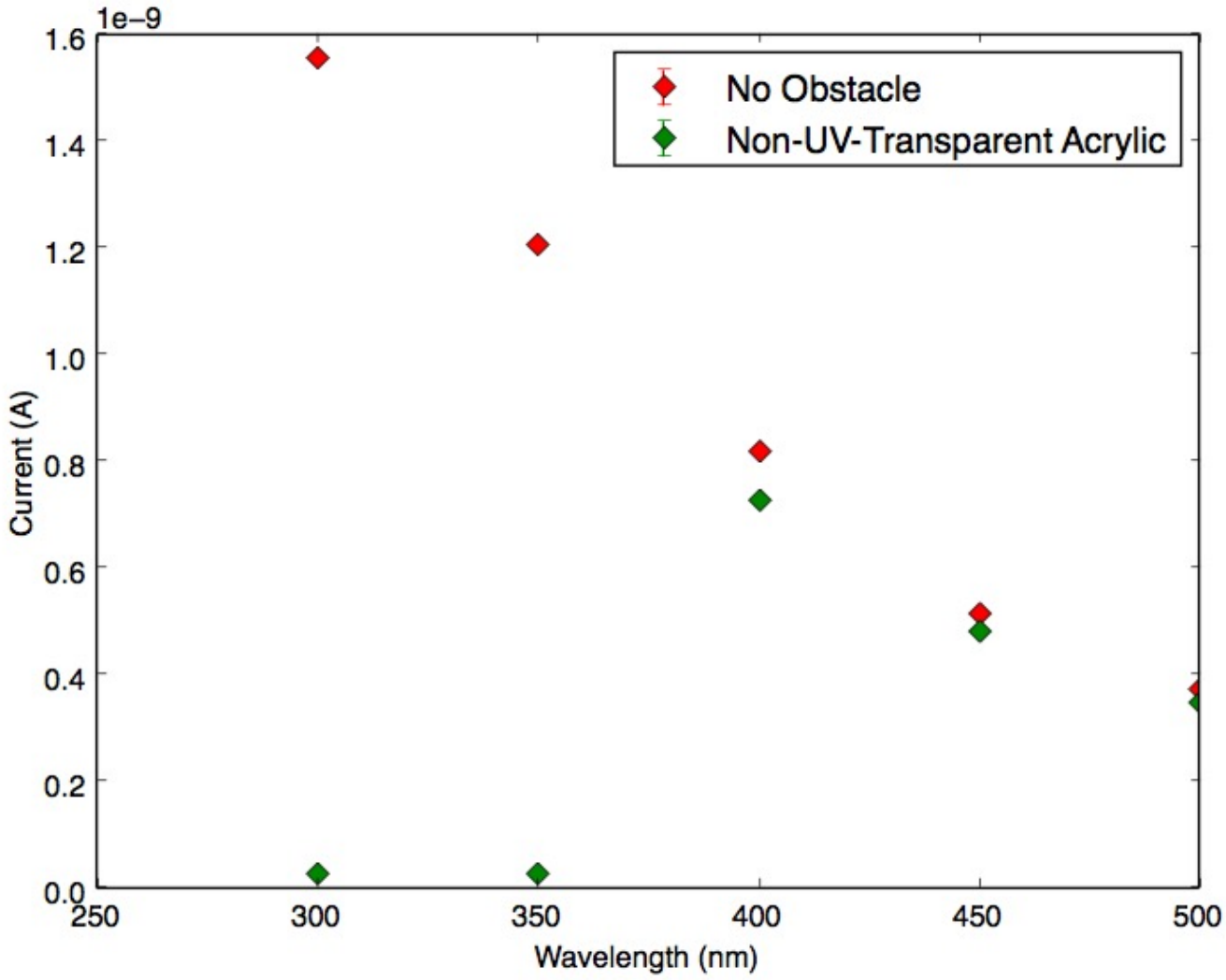
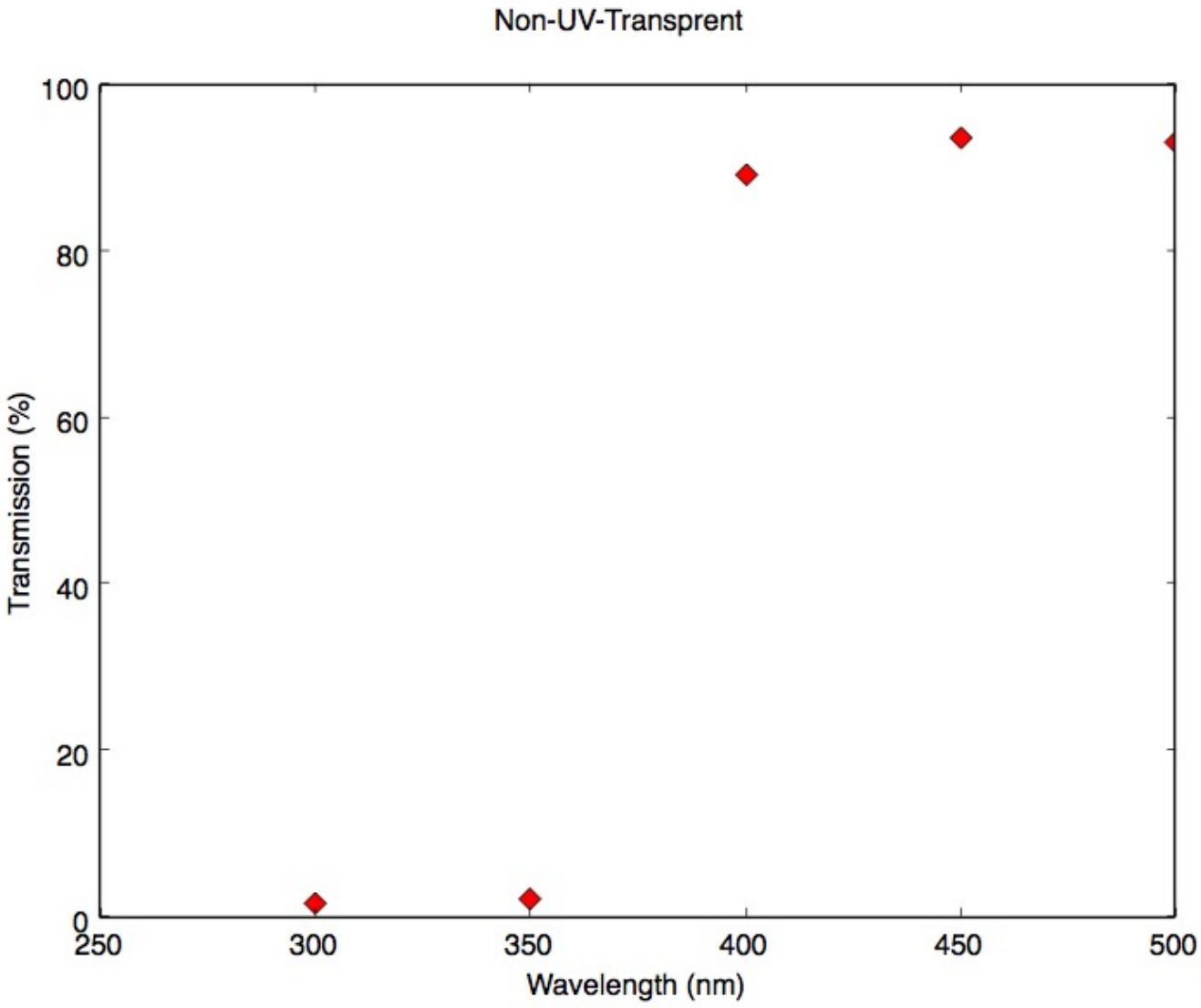
Update

Testing Transmission of Acrylic Sample - Non-UV-Transparent

Testing Transmission of Acrylic Sample - Non-UV-Transparent

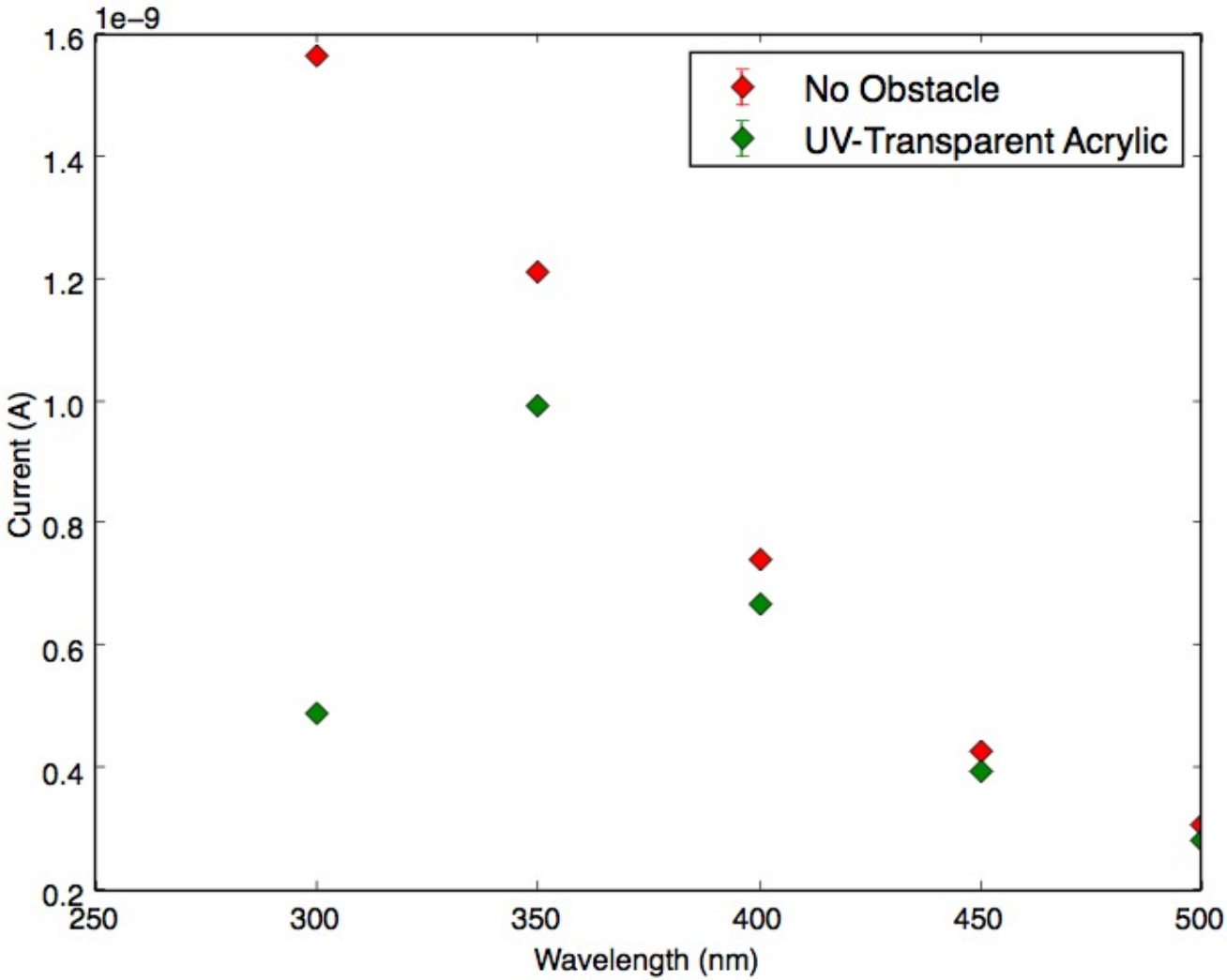


Testing Transmission of Acrylic Sample - Non-UV-Transparent

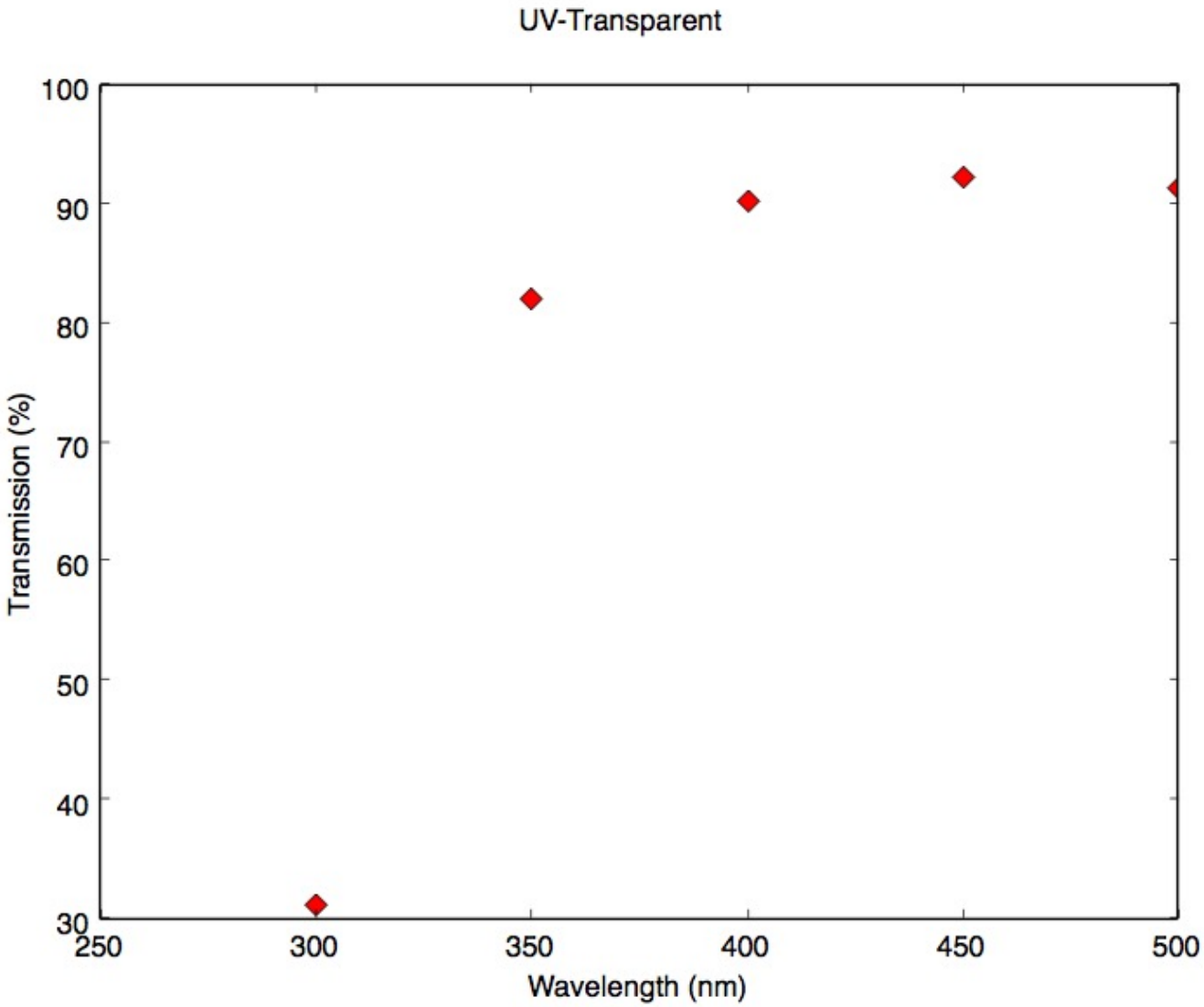


Testing Transmission of Acrylic Sample - UV-Transparent

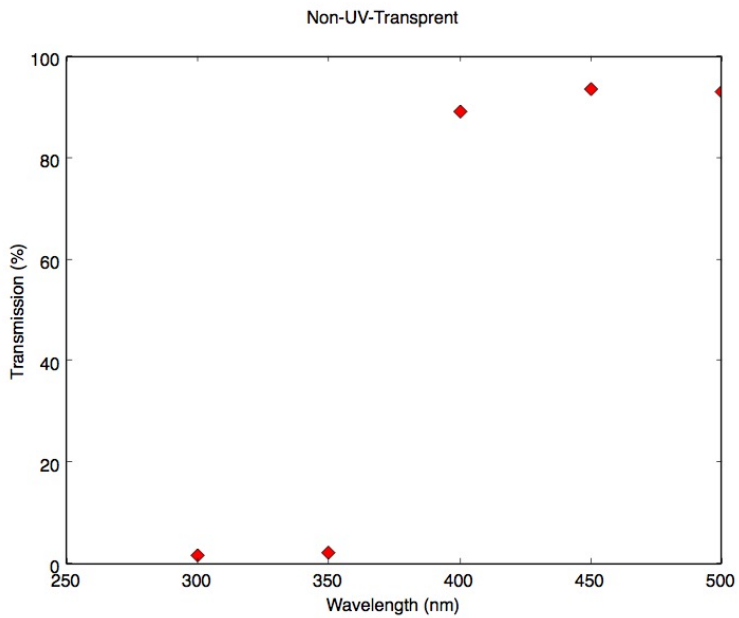
Testing Transmission of Acrylic Sample - UV-Transparent

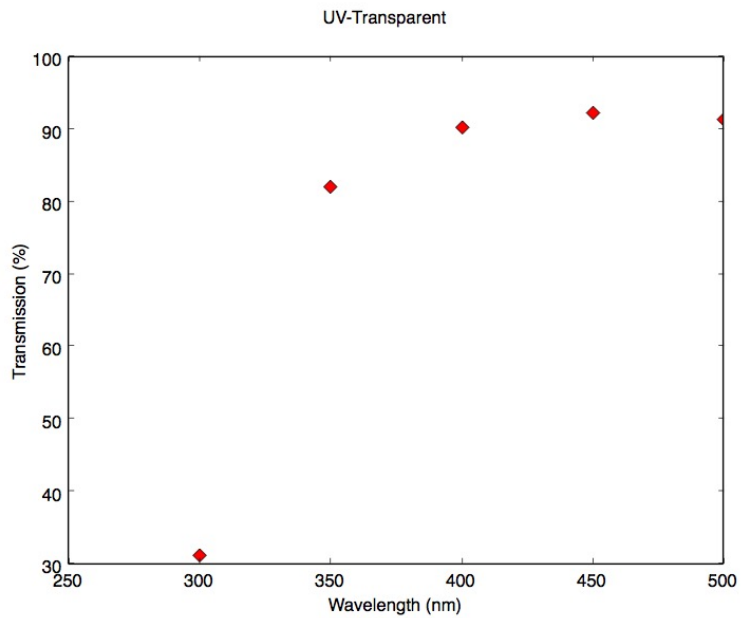


Testing Transmission of Acrylic Sample - UV-Transparent



Testing Transmission of Acrylic Sample - Comparison of Transmittance





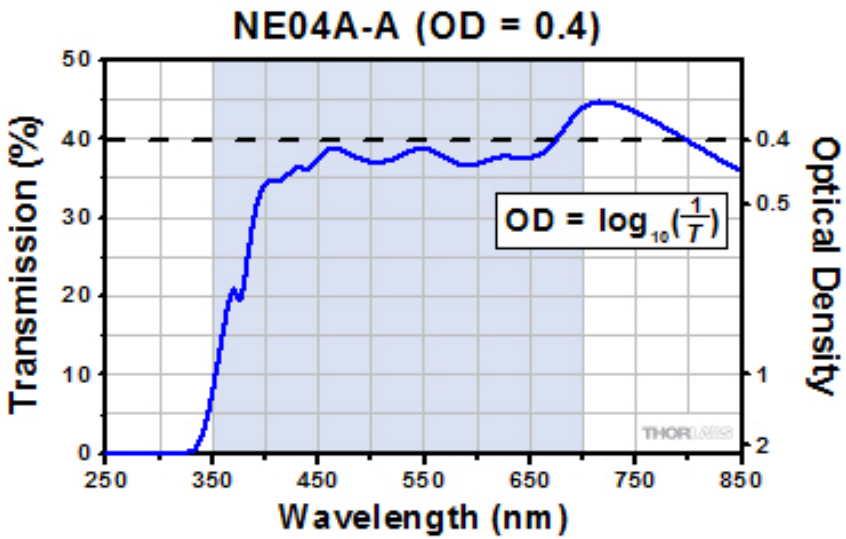
Testing Transmission of Acrylic Sample - Comparison of Transmittance

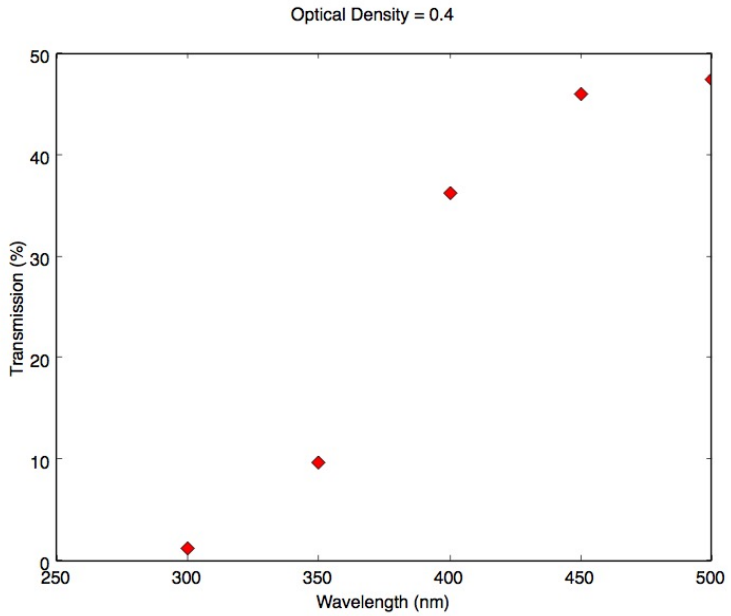
Wavelength (nm)	300	350	400	450	500
Non-UV-Transparent	1.5	2.0	89	94	93
UV-Transparent	31	82	90	92	91

Testing with Neutral Density Filters - Purpose and Objective

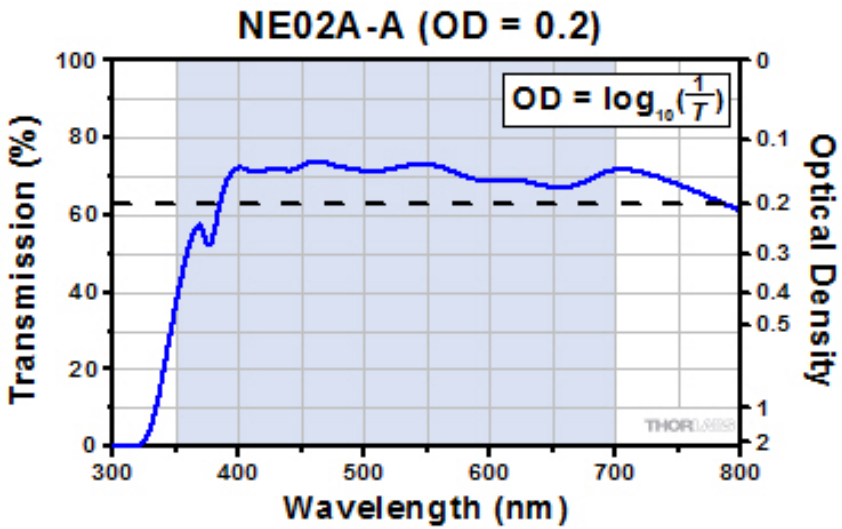
- Confirm whether current set-up is reliable by varying intensity of light to photodiode and comparing transmission to known values from ND filter datasheets

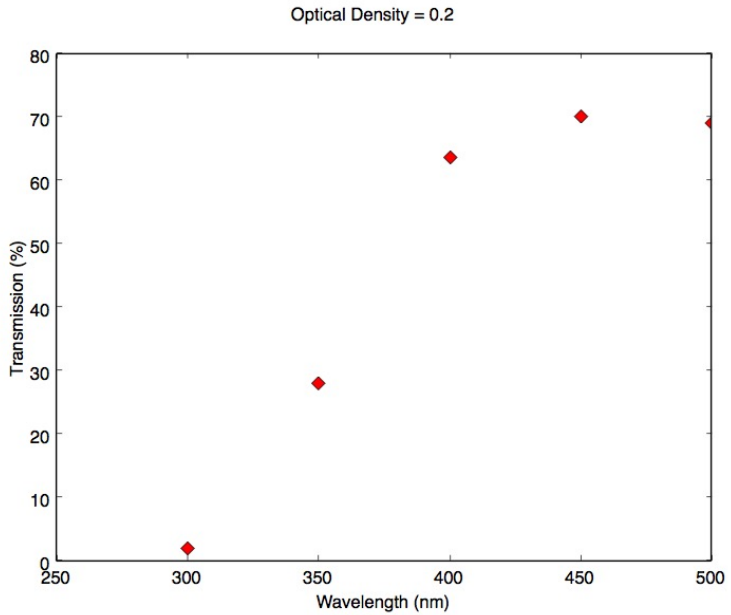
Testing with Neutral Density Filters - Optical Density = 0.4



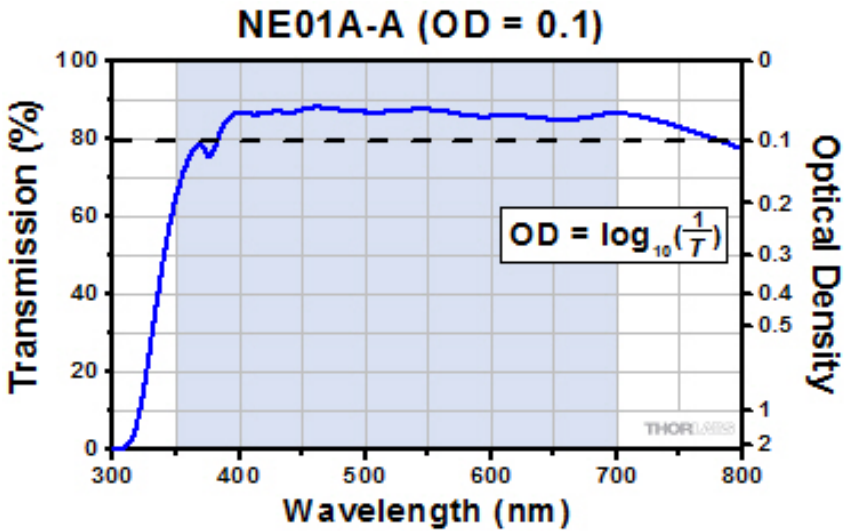


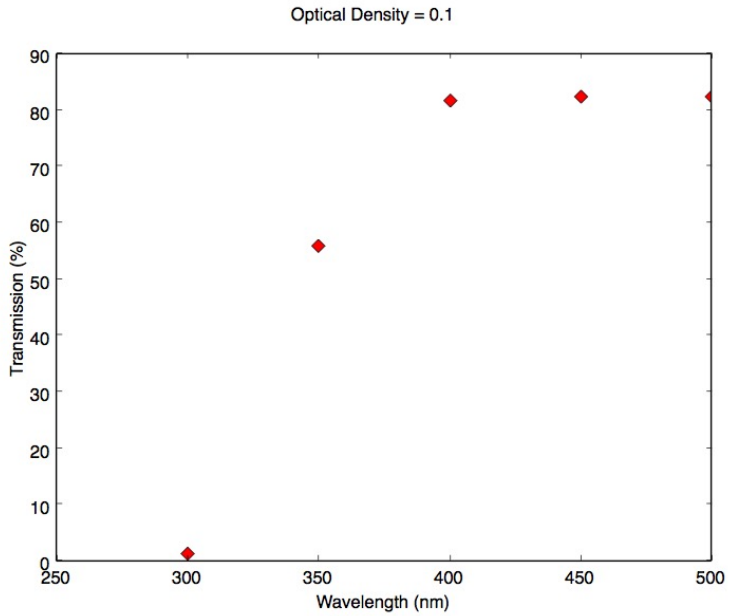
Testing with Neutral Density Filters - Optical Density = 0.2





Testing with Neutral Density Filters - Optical Density = 0.1





Some news...

- One of the photodiodes broke
- Changed experimental method to accomodate for loss

Next Step

Next Step

- Test transmission through silicon gel
- Interface silicon gel with acrylic and photodiode