

(fig-6). It was found that the refractive index decreased with increase in wavelength and becomes almost constant at higher wavelength beyond 400 nm.

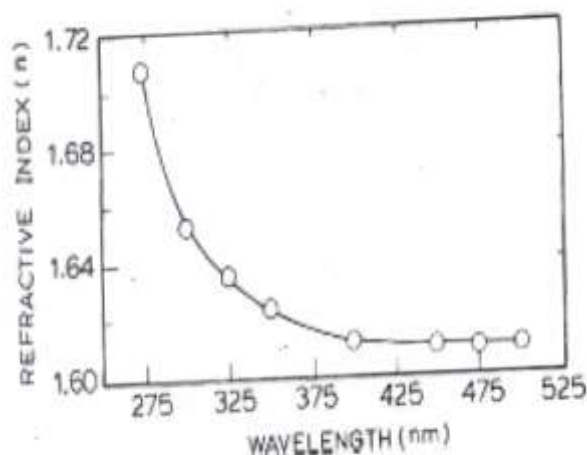


Fig.6– Variation of refractive index with wavelength for Al₂O₃ films post annealed at 550°C

Conclusion:

Al₂O₃ thin films were deposited by sol gel dip coating method using the acrylamide route. X-ray diffraction studies indicated all the peaks corresponding to single phase γ - Al₂O₃. The optical transmittance spectra of the Al₂O₃ thin films indicate an average transmission of about 90% and with a band gap 5.75eV can be obtained.

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