

# **EFFECT OF SUBSTRATE ON REFLECTANCE SPECTRA AND OSCILLATOR PARAMETERS OF (AAS) : (PVP) FILMS**

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## **ABSTRACT**

(4-Acetaminophenol;-[2-(4-Azo)]-4-Aminodiphenyl-Sulfone) (AAS):Polyvinylpyrrolidone(PVP) films of thickness were prepared onto Pyrex, quartz and silica substrate. The effects of substrate types on optical properties of the film were investigated; the optical constants of the film were investigated too by spectrometric measurement. The optical band gap ( $E_g$ ), static refractive index ( $n$ ), oscillator parameter ( $f$ ), dispersion parameter ( $E_d$ ) of the films were determined using the transmittance (T) and reflectance (R) in the spectral range (340-700 nm). From this study we found that the type of substrates affects the optical constants.

**KEYWORDS:** Refraction Index, Optical Band Gap, Oscillator Parameter, Dispersion Parameter