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Study of Some Optical Properties of Polyaniline Polymer

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Abstract:Some of optical properties of polyaniline (PA) dissolves in dimethylformamide (DMF) had been studied at different concentrations (0.1, 0.2, 0.3 and 0.4) g./mL %. The optical properties had been measured which included measuring absorbance and refractive index and from these two properties other properties were calculated such as: transmittance, reflectance, molar reflectance, coefficient of fineness, critical angle and Brewster angle. The results show that all these properties are increased values with increased concentration except the transmittance and the critical angle, it decreases with increasing concentrations.

Key words:Polyaniline, Optical Properties, Transmittance.

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