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Morphology of silver particulate films on polymer composite

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The morphology of silver particulate films can be characterized by their size, size distribution, shape and inter-particle separation. These can be modified by blending of polymers along with the amount of silver deposited on them. Polymer blends (PS/PVP/P2VP/P4VP) were prepared through solution blending by mixing in a common solvent, Dimethylformamide (DMF), and distilled water, at room temperature. Blends of polymer composite with different compositions ranging from

0 to 100 % were prepared. Silver films of various thicknesses were deposited on these polymer composites held at 457 K in a vacuum better than 8×10^{-6} Torr at the deposition rate of 0.4 nm/s. Morphological studies were carried out by Optical absorption spectra and Scanning electron micrographs of the silver particulate films.

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