

## **Investigation of Surface Properties of Polymer Compound Blended with Nanoparticles**

This research was studied to focus on hydrophobic and hydrophilic properties, surface morphology and adhesion force of polymer compound using nanoparticles and atomic force microscope (AFM) by blend with nanoparticles. For this research used Poly(methyl methacrylate) (PMMA) that blended with nanoparticles such as Zinc oxide (ZnO) and Titaniumdioxide (TiO<sub>2</sub>) by varied nanoparticles ratio. From the results were found that when increased ZnO nanoparticles ratio the contact angle of PMMA was decreased. But for TiO<sub>2</sub> was shown that when raised the nanoparticles compound contact angle was increased together.

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