

## Nanostructured surfaces

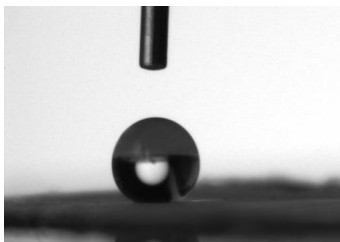
### Hydrophobic Surface Properties of Pbo/Pvdf Blend Nanofiber

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In this study, a new synthesis of polybenzoxazoles was studied by reacting 3,3<sup>1</sup>-dihydroxy-4,4<sup>1</sup>diaminobiphenyl with various *p*-aromatic dihydroxamoyl chlorides in *N,N*-dimethylformamide under a nitrogen atmosphere at both room temperature and 150°C [1-2]. PBO powder treatment with 1 M H<sub>2</sub>SO<sub>4</sub> solution. Polybenzoxazole blend nanofibers from PBO/PVDF (1:10 ratio) in DMF the dispersion solutions were prepared. In shown results, the surface contact angle measured value for PBO/PVDF blend amount with acid – doped 150.8°. As a result polymer fibers super hydrophobic surface measured proved of availability [3-4].



**Figure 1. Water contact angle image of PBO / PVDF nanofiber blend**

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