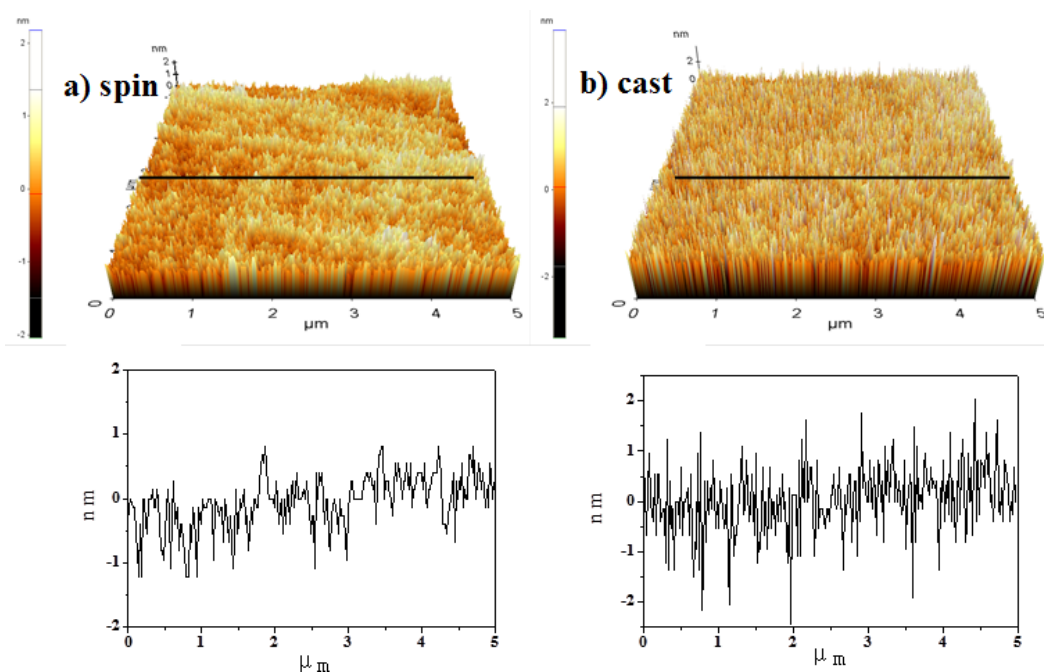


## Supplementary Information for:

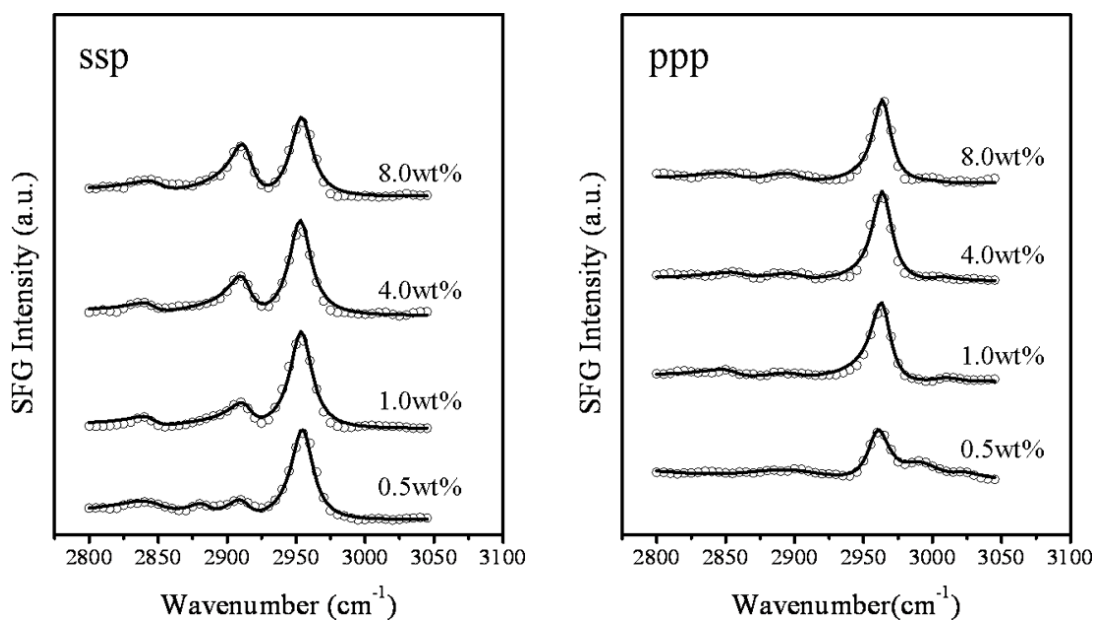
### Surface Structure of Poly(methyl methacrylate) Films Influenced by Chain Entanglement in the Corresponding Film-Formation Solution

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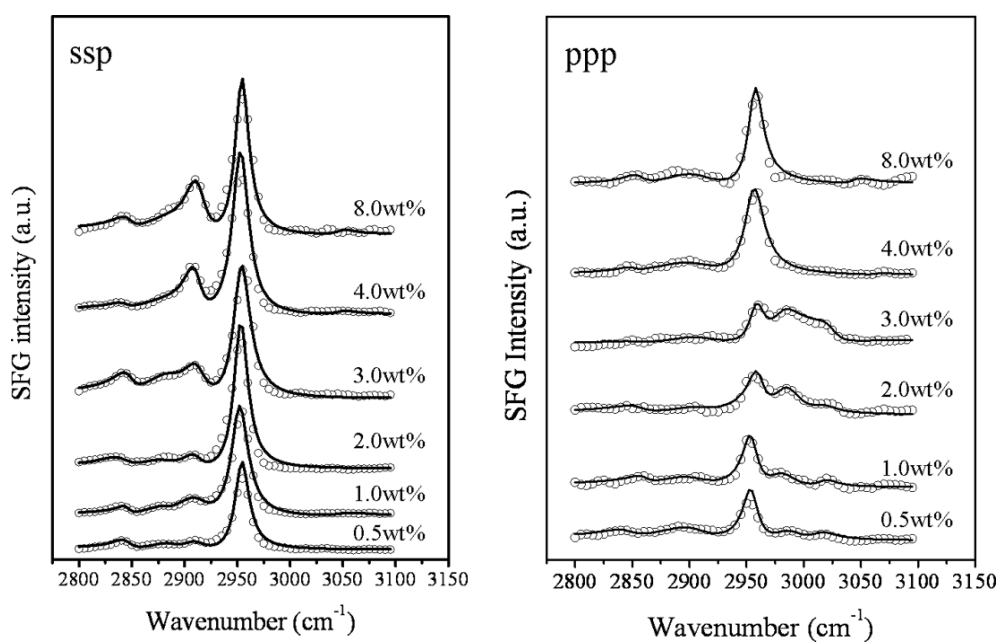
Department of Chemistry, Key Laboratory of Advanced Textile Materials and Manufacturing  
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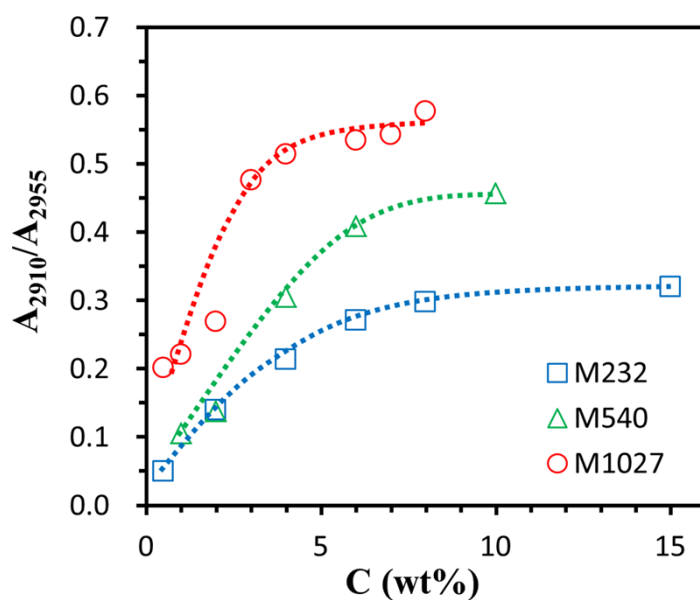
**Fig. S1** AFM topography images of spin-coated (a) and cast (b) M1027 films. The solution concentration was 2.0wt% and the spin-coating speed was at 3000 rpm.



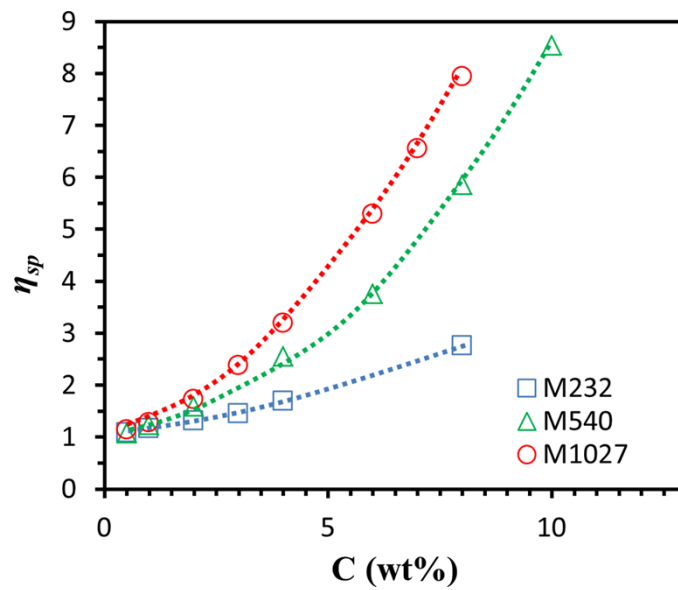
**Fig.S2** SFG spectra of cast M540 films prepared by various concentrations of casting solution.



**Fig. S3** SFG spectra of the M1027 films spin-coated at 3000 rpm with various solution concentrations of casting solution.



**Fig. S4** Concentration dependence of  $A_{2910}/A_{2955}$  from SFG spectra of PMMA films with various molecular weights spin-coated at 1500 rpm. The dash line is a guide to the eye.



**Fig. S5** Relationship between the specific viscosity and solution concentration of casting solution.