

Supporting Information

Figure S1. Pyrolysis mass spectra of PEEK collected at 505 °C (in vacuum) is displayed, in; heating rate 10 °C/min. the figure shows some main products, m/z 94 (phenol), along with a m/z of 121 ($\text{HO-C}_6\text{H}_5\text{-CO}^+$) and m/z of 168 (possibly due to dibenzofuran). There are only two repeat units of the polymer (m/z 576), but absent of one repeat unit the monomer, at m/z 278.

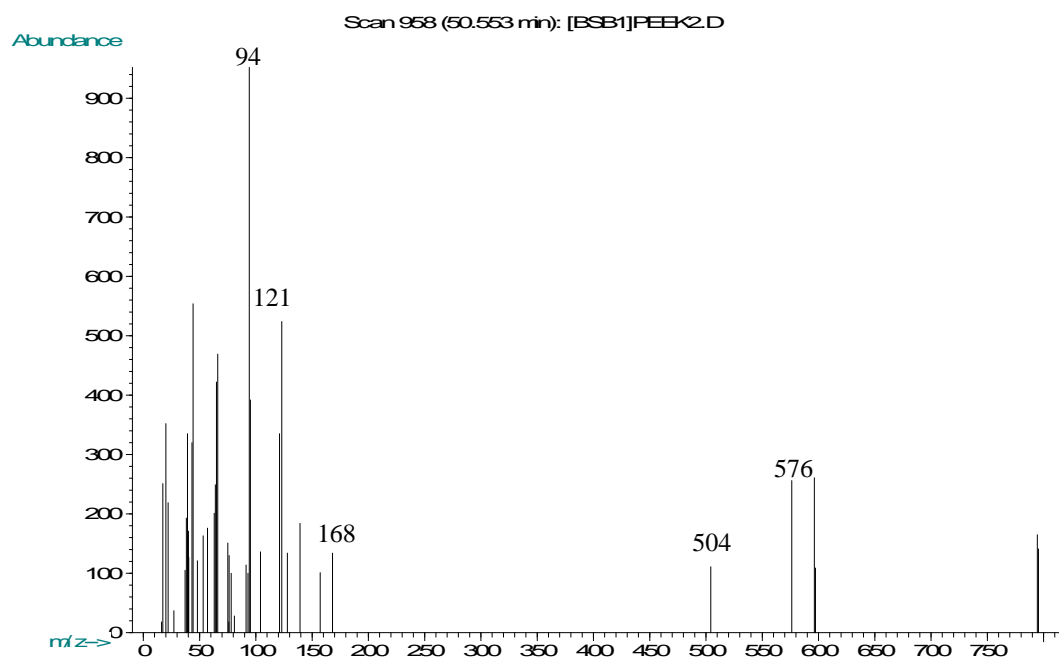


Figure S1 Py-MS spectrum of PEEK collected at 505 °C in vacuum. The heating rate was 10 °C/min.