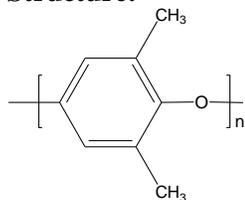


Sample Name: Poly(2,6-dimethyl-1,4-phenylene oxide)

SEC of Homopolymer:

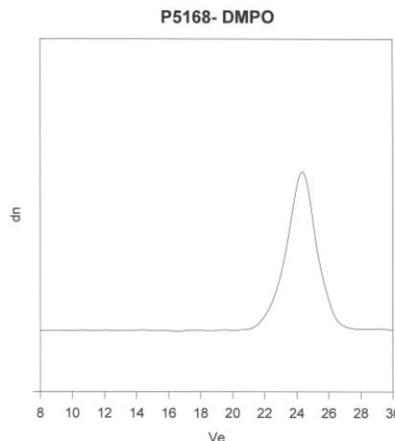
Sample #: P5168-DMPO

Structure:



Composition:

$M_n \times 10^3$	PDI
14.0	1.7

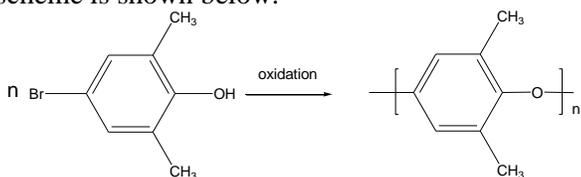


Size Exclusion Chromatography of Poly(2,6-dimethyl-p-phenylene oxide) on line Viscotek triple detectors:

$M_n=14000$, $M_w=24000$ PI=1.70
Solution Viscosity in THF at 30 °C: 0.367dl/g
Radius of Gyration: 6.50nm

Synthesis Procedure:

Poly(2,6-dimethyl-p-phenylene oxide) is obtained by oxidation polymerization and the reaction scheme is shown below.



Characterization:

The molecular weight and polydispersity index (PDI) of poly(2,6-dimethyl-p-phenylene oxide) are obtained by size exclusion chromatography.

Solubility:

Solubility: Polymer is soluble in DMF, THF (warm) and CHCl₃. It precipitates from methanol, ethanol, water, and hexanes.