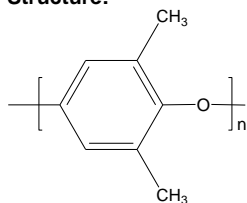


Sample Name: Poly(2,6-dimethyl-p-phenylene oxide)

Sample #: P5170-DMPO

Structure:

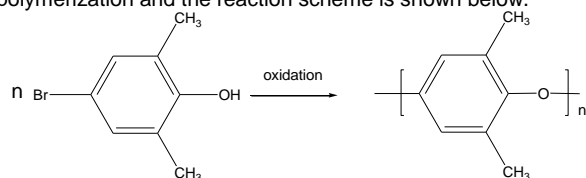


Composition:

Mn x 10 ³	PDI
29.5	1.5

Synthesis Procedure:

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

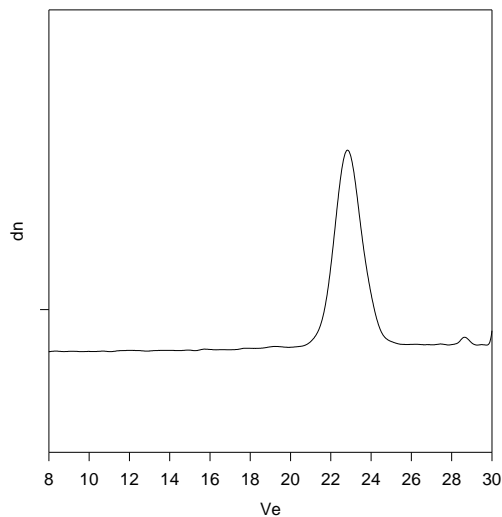


Characterization:

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

SEC of Homopolymer:

P5170- DMPO



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

$M_n=29500$, $M_w=44000$ $PI=1.50$

Solution Viscosity in THF at 30 °C: 0.607 dL/g

Radius of Gyration: 9.62 nm