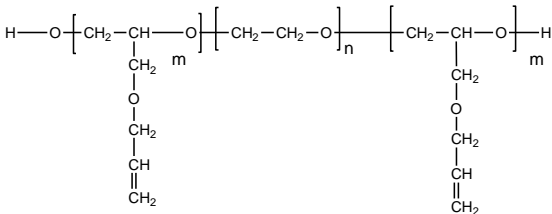


Sample Name: Poly (Allyl Glycidyl ether-b-ethylene oxide-b- Ally Glycidyl ether)

Sample #: P41132-AGE-EO-AGE

Structure:



Composition:

| Mn x 10 ³ | PDI |
|----------------------|------|
| 3.5-b-21.0-b-3.5 | 1.28 |

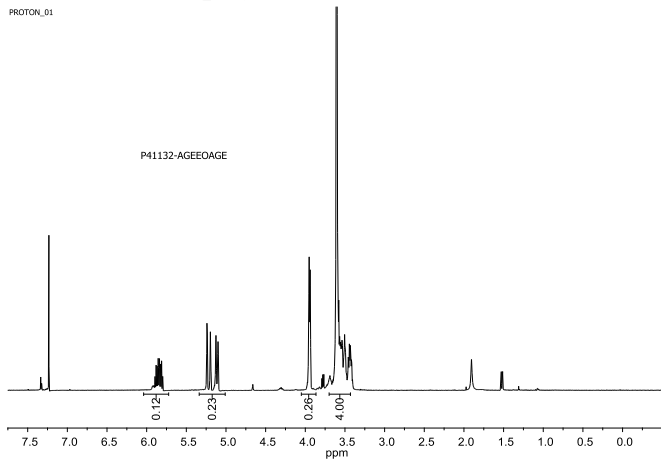
Synthesis Procedure:

The polymer was synthesized by anionic polymerization process.

Characterization:

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

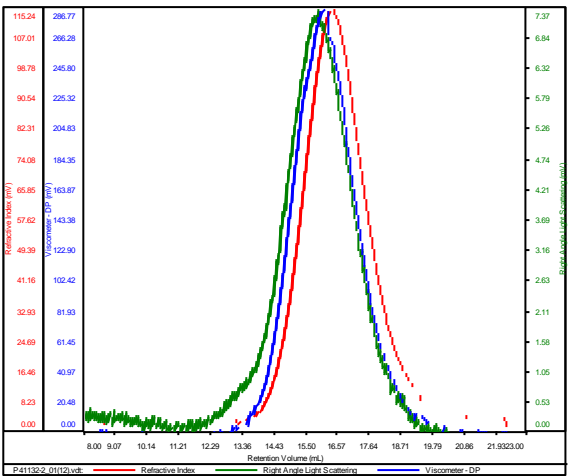
¹HNMR for the polymer:



SEC elugram of EO block:

P41132-EO first block

| | |
|-----------|----------------------------|
| Conc | 22.6389 |
| dn/dc | 0.0510 |
| Solvent | DMF w 0.023M LiBr |
| Flow Rate | 0.7000 |
| Method | PS-80K_2018-04-02-0000.vcm |

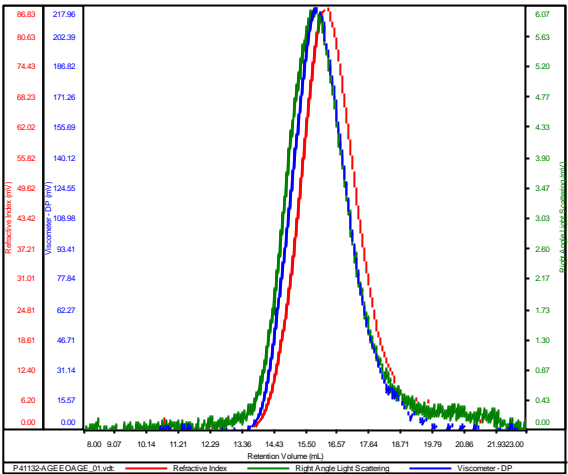


| Sample | Mn | Mw | Mp | Mw/Mn | IV |
|---------------------|--------|--------|--------|-------|--------|
| P41132-2_01(12).vdt | 21,388 | 26,924 | 21,960 | 1.259 | 0.3653 |

SEC elugram of the Polymer:

P41132-AGEEOAGE

| | |
|-----------|----------------------------|
| Conc | 15.8014 |
| dn/dc | 0.0490 |
| Solvent | DMF w 0.023M LiBr |
| Flow Rate | 0.7000 |
| Method | PS-80K_2018-04-02-0000.vcm |



| Sample | Mn | Mw | Mp | Mw/Mn | IV |
|------------------------|--------|--------|--------|-------|--------|
| P41132-AGEEOAGE_01.vdt | 27,349 | 35,076 | 25,961 | 1.283 | 0.3602 |