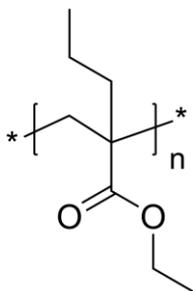


Sample name: Poly(ethyl α -propyl acrylate)

Sample ID #: P60522A-EPrA

Structure:

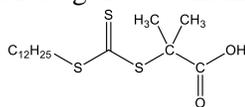


Composition:

| | |
|---------------------------|-----------|
| $M_n \times 10^3$ (g/mol) | M_w/M_n |
| 5.8 | 1.25 |

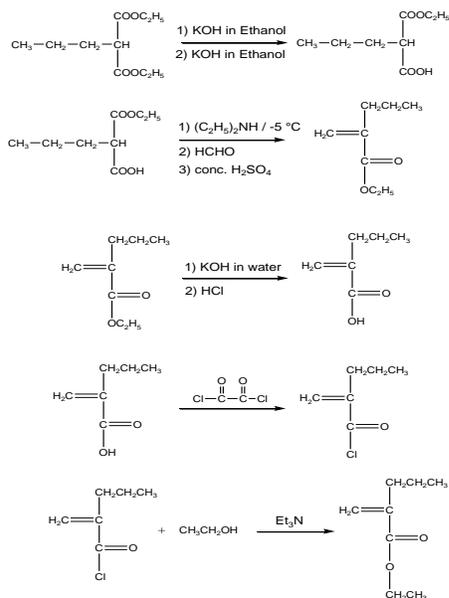
Synthesis Procedure:

The polymer was synthesized by RAFT polymerization process. The RAFT reagent used in this process:



Chemical Formula: $C_{17}H_{32}O_2S_3$
Molecular Weight: 364.6

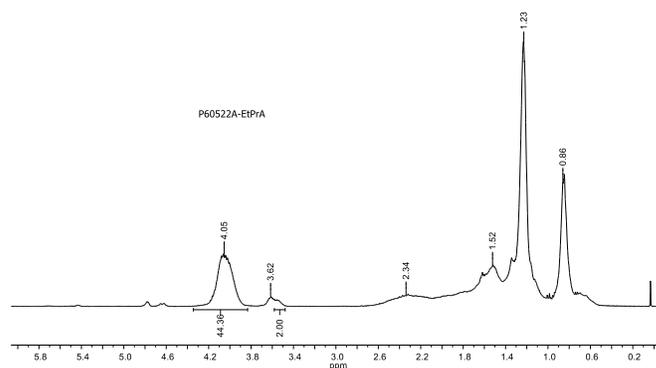
The scheme of reaction is presented below:



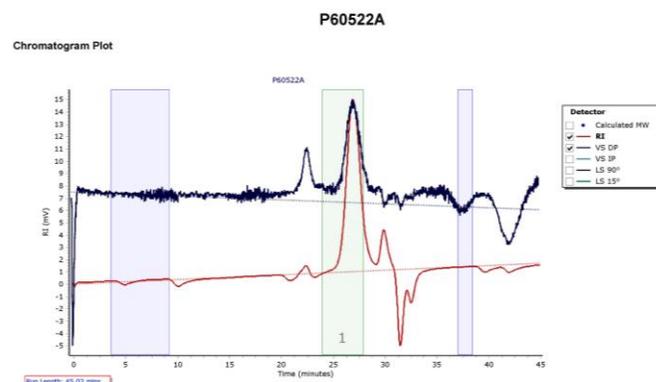
Characterization:

The product was characterized by proton NMR and size exclusion chromatography (SEC).

1H NMR spectrum of the polymer:



SEC chromatogram of the product:



| Peak | Mp (g/mol) | Mn (g/mol) | Mw (g/mol) | Mz (g/mol) | Mz+1 (g/mol) | Mv (g/mol) | PD |
|--------|------------|------------|------------|------------|--------------|------------|-------|
| Peak 1 | 6262 | 5794 | 7168 | 9564 | 14044 | 8458 | 1.241 |