



## Product Profile

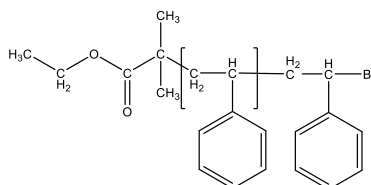
### Identification

**Product Name:** Poly(styrene),  $\alpha$ -bromo-terminated

(Macroinitiator for ATRP)

**Product Lot Number:** P45009A-SBr

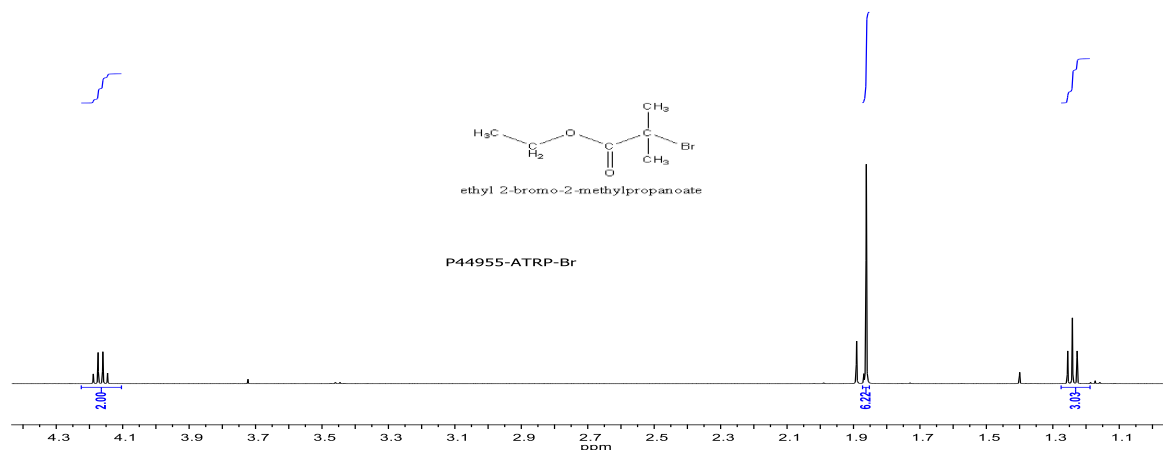
**Chemical Architecture:**



**Composition:**

|             |        |
|-------------|--------|
| Mn (g/mole) | 22,000 |
| Mw (g/mole) | 35,000 |
| Mw/Mn       | 1.6    |

**Method of Synthesis:** Br-terminated polystyrene was synthesized by ATRP using following ATRP reagent:



**Solubility in different solvents:**

|                   |   |          |   |
|-------------------|---|----------|---|
| THF               | √ | Methanol | X |
| CHCl <sub>3</sub> | √ | Hexane   | X |
| Toluene           | √ |          |   |

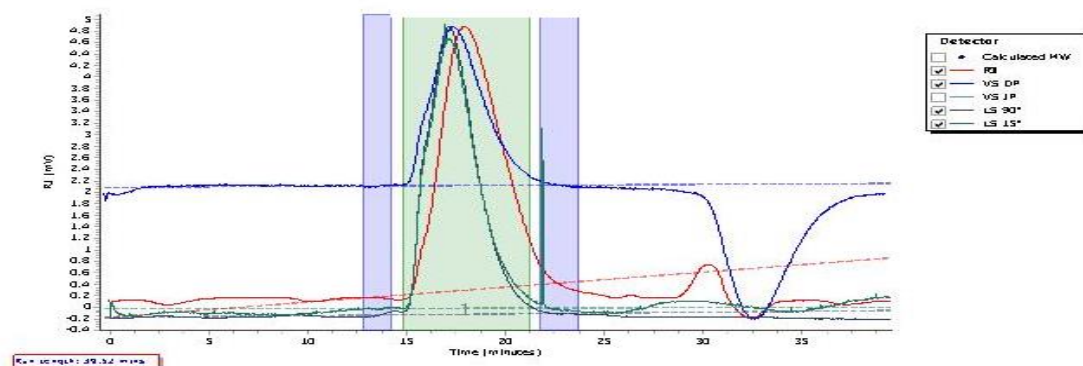


**Polymer Source,™ Inc.**

**Validation of Architecture:** The product was characterized by size exclusion chromatography (SEC) in THF.

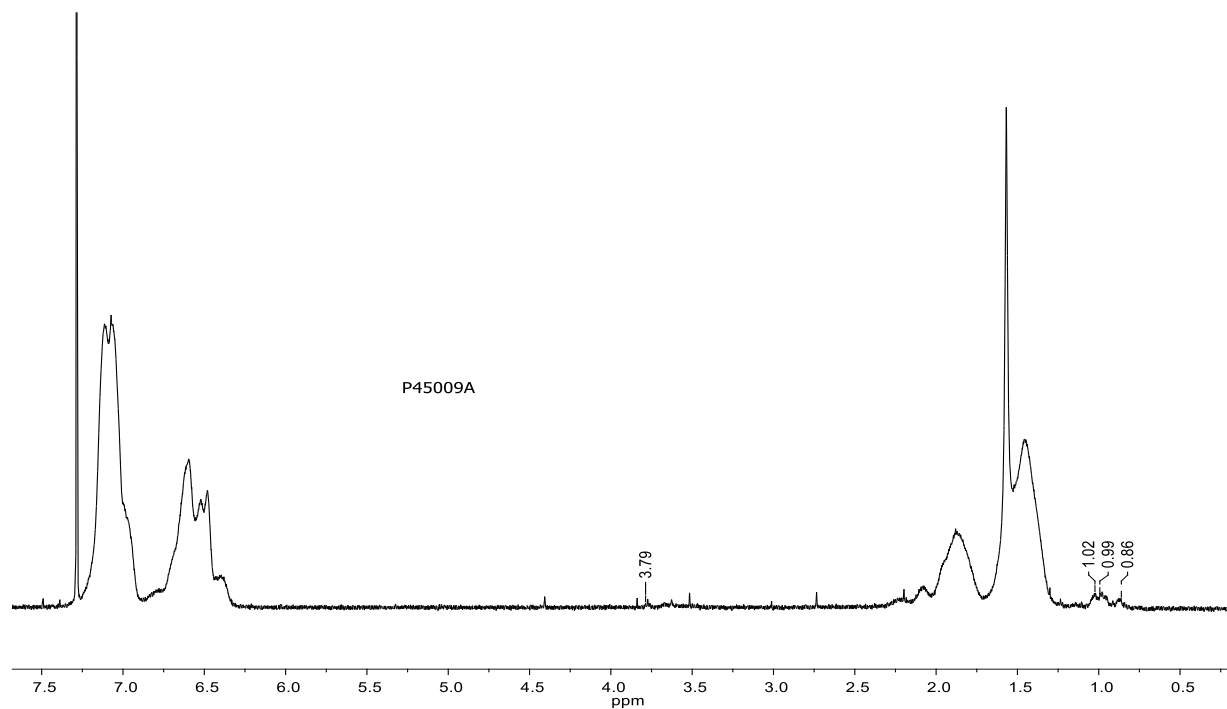
Chromatogram Plot

P45009A-SBr



Molecular Weight Averages

| Peak   | Mp (g/mol) | Mn (g/mol) | Mw (g/mol) | Mz (g/mol) | Mz+1 (g/mol) | Mv (g/mol) | PD    |
|--------|------------|------------|------------|------------|--------------|------------|-------|
| Peak 1 | 34559      | 22122      | 35002      | 50903      | 66384        | 49040      | 1.582 |



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