

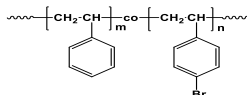
Product Profile

Identification

Product Name: Poly(styrene-co-4-bromostyrene), random

Product Lot Number: P2149CR-S4BrSran

Product Chemical Architecture:



Composition:

| | |
|-------------------------------------|-----------------|
| 4 BrS | 48 mole% |
| Mn (g/mole) | 50,000 |
| MW (g/mole) | 51,000 |
| MW/Mn | 1.01 |
| dn/dc (mL/g) in THF at 30 °C | 0.184 |

Method of Synthesis

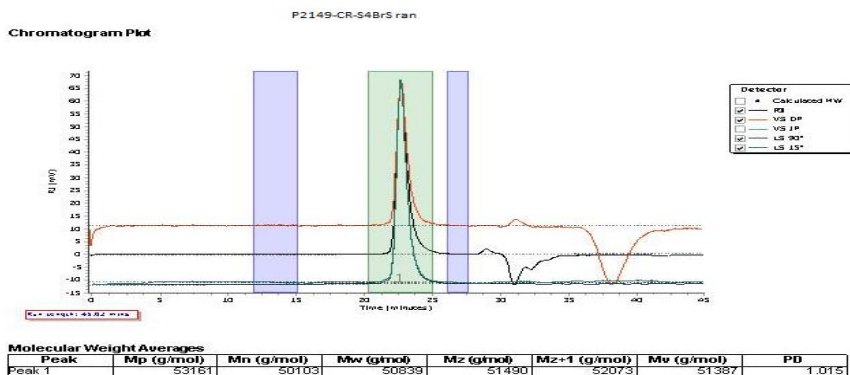
The polymer is prepared bromination of Polystyrene obtained by anionic polymerization process. Bromination carried out by Br₂ in the presence of Thallium (III)triacetate.

Solubility in different solvents

| | | | |
|---------|---|-------------------|---|
| THF | √ | DMF | √ |
| Alcohol | X | CHCl ₃ | √ |
| Toluene | √ | DMSO | X |

Validation of Architecture

A. Gel Permeation Chromatography (GPC), SEC- Profile:



B. ¹H NMR of polymer

