

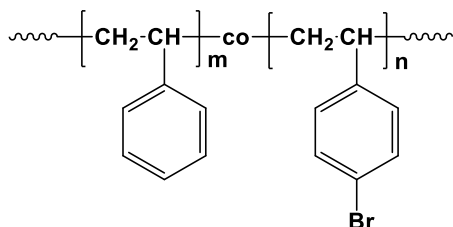
# Product Profile

## Identification

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

**Product Lot Number:** P2148AR-S4BrSran

**Product Chemical Architecture:**



**Composition:**

<b>4 BrS</b>	<b>50mole%</b>
<b>Mn (g/mole)</b>	<b>315,000</b>
<b>MW (g/mole)</b>	<b>480,000</b>
<b>MW/Mn</b>	<b>1.5</b>
<b>dn/dc (mL/g)</b>	<b>0.184</b>

## Method of Synthesis

The polymer is prepared bromination of Polystyrene obtained by anionic polymerization process. Bromination carried out by Br<sub>2</sub> in the presence of Thallium (III)triacetate

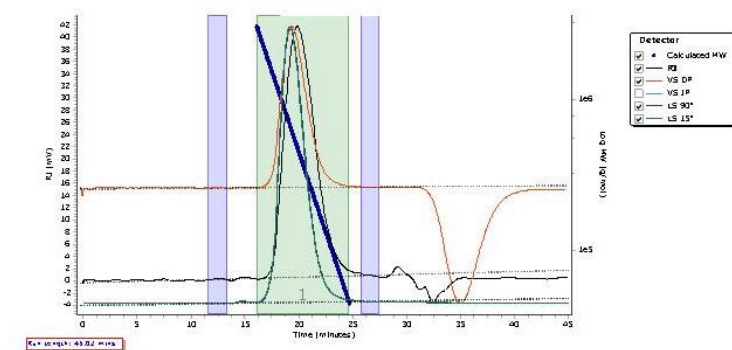
**Solubility in different solvents**

THF	√	DMF	√
Alcohol	X	CHCl <sub>3</sub>	√
Toluene	√	DMSO	X

## Validation of Architecture

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

Chromatogram Plot



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	482315	314496	479372	650711	812431	626210	1.524

**B. HNMR spectrum of polymer:**

