

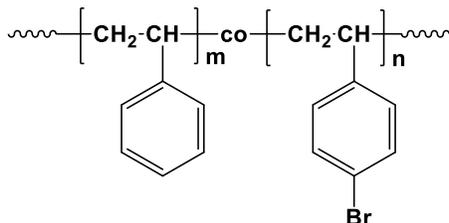
# Product Profile

## Identification

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

**Product Lot Number:** P2154AR-S4BrSran

**Product Chemical Architecture:**



**Composition:**

<b>4 BrS</b>	<b>44 mole%</b>
<b>Mn (g/mole)</b>	<b>540,000</b>
<b>MW (g/mole)</b>	<b>614,000</b>
<b>MW/Mn</b>	<b>1.13</b>
<b>dn/dc (mL/g)</b>	<b>0.184</b>

## Method of Synthesis

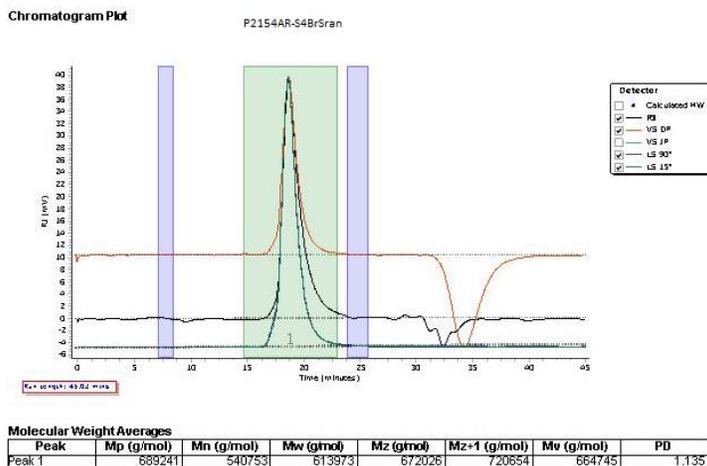
The polymer is prepared bromination of Polystyrene obtained by anionic polymerization process. Bromination carried out by Br<sub>2</sub> in the presence of Thallium (III)triacetate

**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:



**B. HNMR spectrum of polymer:**

