

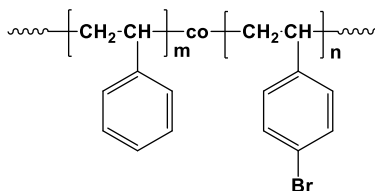
# Product Profile

## Identification

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

**Product Lot Number:** P44479-S4BrSran

**Product Chemical Architecture:**



**Composition:**

<b>4 BrS</b>	<b>49 mole%</b>
<b>Mn (g/mole)</b>	<b>40,000</b>
<b>MW (g/mole)</b>	<b>49,000</b>
<b>MW/Mn</b>	<b>1.24</b>
<b>dn/dc (mL/g) in THF at 30 °C</b>	<b>0.184</b>

## Method of Synthesis

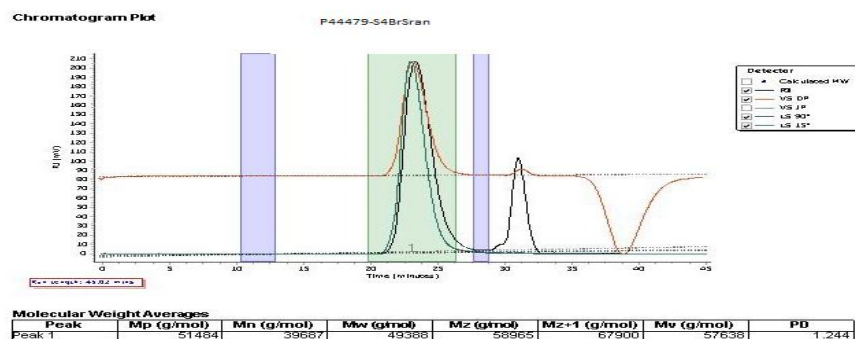
The polymer is prepared from a mixture of 4 BrS and Styrene monomer using RAFT process.

**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:**

