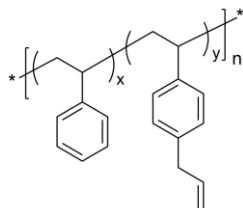


Sample Name: Poly(styrene-co-4-allyl styrene), random

Sample #: P41466D-SSAllyl

Structure:



Composition:

Mn x 10 ³	Mw/Mn
15.5	1.13

4-AllylStyrene, mol%: 8%

Synthetic Procedure:

Poly(styrene-co-[4-allylstyrene]) is prepared by anionic copolymerization of styrene and 4-allyl styrene.

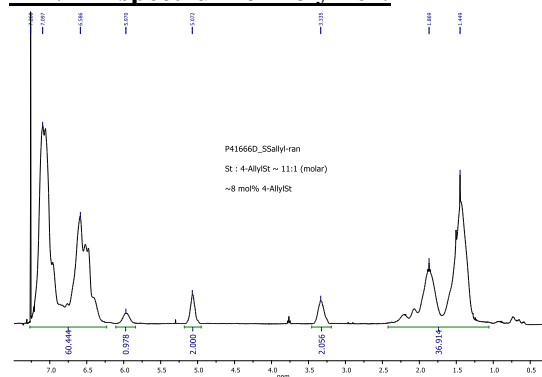
Characterization:

The molecular weight and polydispersity index (PDI) of polymers are obtained by size exclusion chromatography. The composition is determined by NMR.

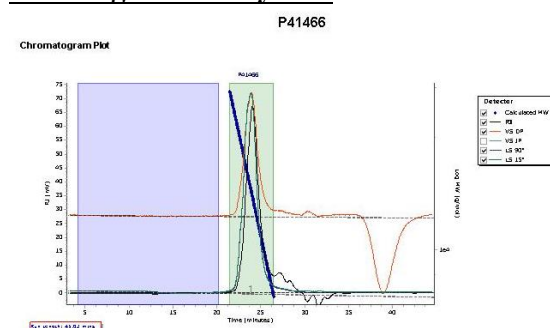
Solubility:

Poly(styrene-co-[4-allylstyrene]) is soluble in THF, DMF, chloroform, and Toluene. It precipitates from hexane or methanol.

¹HNMR spectrum of Polymer:



SEC elugram of Polymer:



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mw (g/mol)	PDI
Peak 1	17416	15566	17620	18669	21746	19354	1.132

¹HNMR spectrum of Allyl Styrene:

