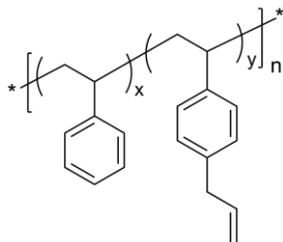


Sample Name: Poly(styrene-co-4-allyl styrene), random

Sample #: P41467-SSallyl-ran

Structure:



Composition:

Mn x 10 ³	AllylStyrene, mol%	Mw/Mn
5.0	4.8%	1.23

Synthesis Procedure:

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

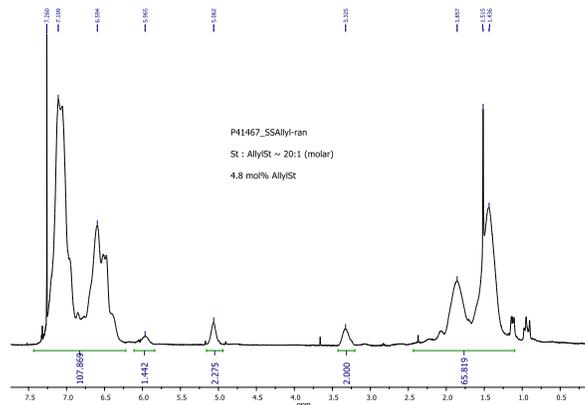
Characterization:

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

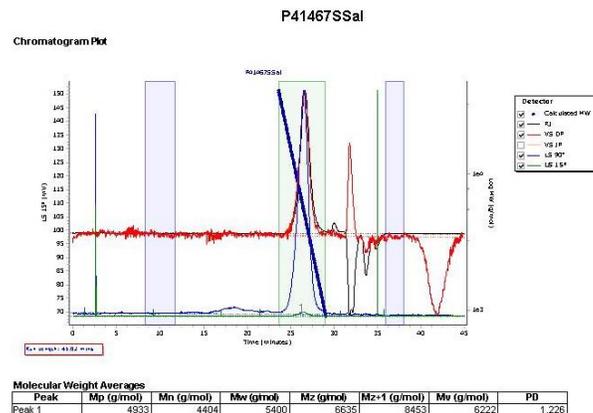
Solubility:

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

HNMR spectrum of Polymer:



SEC elugram of Polymer:



Molecular Weight Averages							
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz-1 (g/mol)	Mv (g/mol)	PDI
Peak 1	4533	4404	5400	6635	8453	6222	1.226

HNMR of Allyl Styrene:

