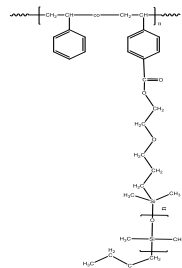


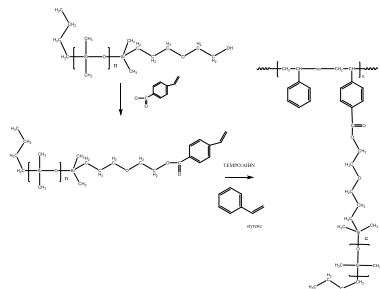
Poly(styrene)-graft-poly (dimethyl siloxane), grafting on backbone

Structure:



Synthesis:

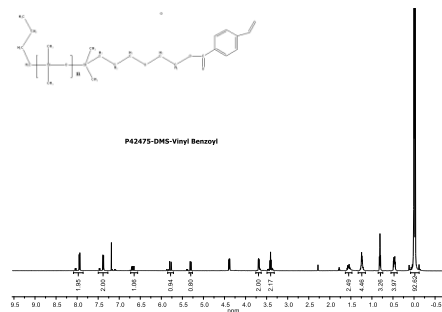
The following reaction scheme shows how the product was prepared.



The product was characterized by size exclusion chromatography (SEC) and ^1H NMR.

Polymer is soluble in THF, chloroform, and toluene. It precipitates from methanol.

¹H NMR spectrum of PDMS Macromonomer used in the synthesis: Lot# P42475-DMS-VinylBenzoyl Mn of 1000:



Size exclusion chromatography of Carbinol terminated poly(dimethyl siloxane):
 $M_n = 1,000$, $M_w = 1,150$ M, $M_n = 1.15$, functionality 99% (carbinol)

Agilent GPC/SEC Software

