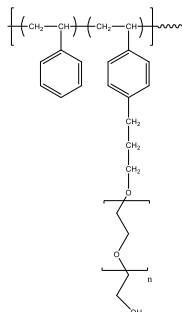


Sample Name: Poly(styrene)-graft-poly (ethylene oxide), PEO is hydroxy-terminated

Sample #: P41758-SEOcomb

Structure:

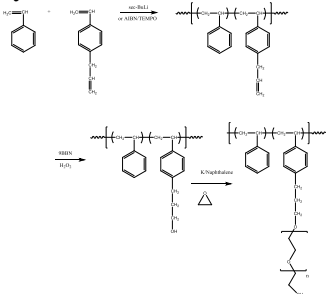


Composition:

Mn x 10 <sup>3</sup> (Main Chain)	Mn x 10 <sup>3</sup> (Graft Chain)	Mn x 10 <sup>3</sup> (Total Chain)	Mw/M n (Total)
6.0	4.5	34.0	1.02
PEO = 6 branches			

Synthesis Procedure:

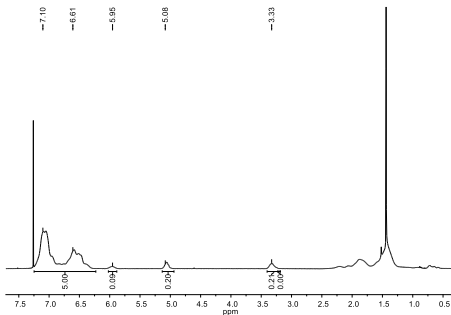
Polystyrene-g-poly (ethylene oxide) is synthesized by polymerization of ethylene oxide on the polystyrene bearing hydroxyl functions. The brief synthetic route is illustrated as following scheme.



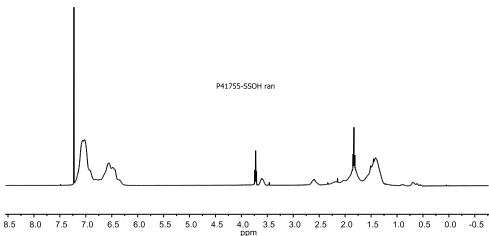
Characterization:

The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>H NMR data analysis.

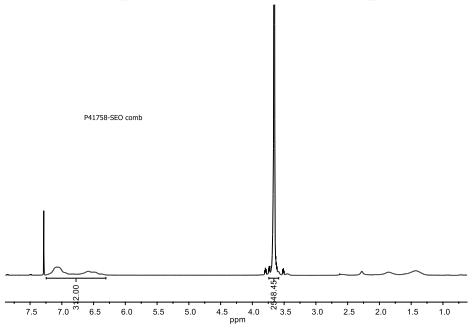
H NMR spectrum of SSallyl random:



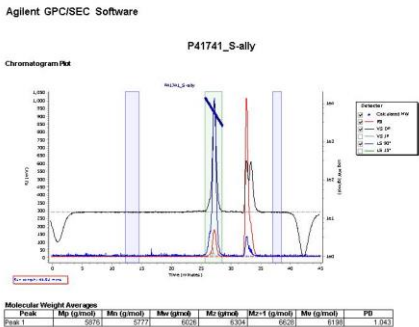
H NMR spectrum of SSpropanol random:



H NMR spectrum of the Sample:



SEC of Polymer SSallyl ran Lot P41741:



SEC elugram of the Sample:

