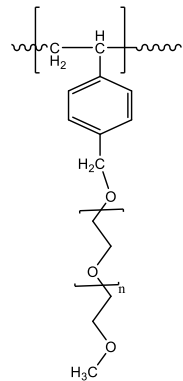


Sample Name: Polystyrene Graft Poly ethylene glycol methylether (Mw 550)

Sample #: P42925-SEOcomb

Structure:



Composition:

Mn x 10 <sup>3</sup> (Total)	Mn x 10 <sup>3</sup> (mPEG)	Mw/Mn
36.0	0.55	1.19

Synthesis Procedure:

The polymer was synthesized by RAFT polymerization process.

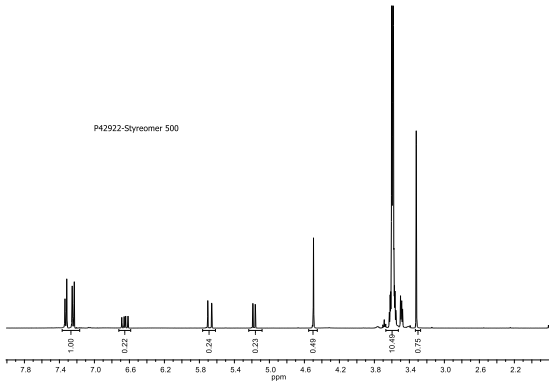
Characterization:

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

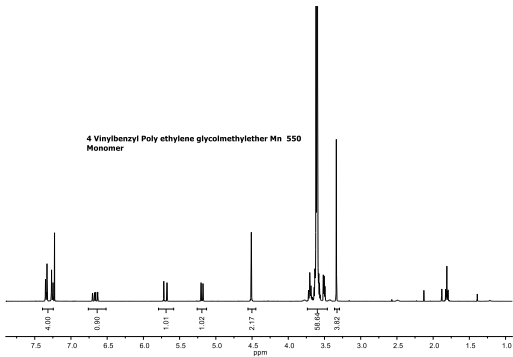
Solubility:

Polystyrene-g-poly(poly ethylene glycol methylether) is soluble in THF, DMF and chloroform.

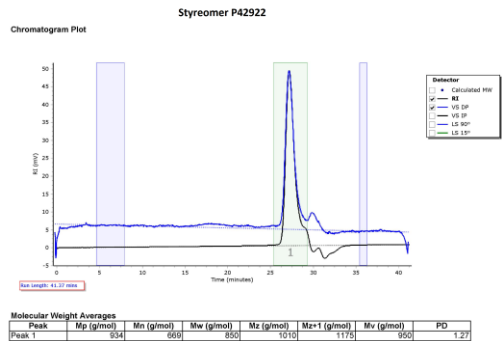
<sup>1</sup>H-NMR spectrum of P42922-Styreomer:



<sup>1</sup>H-NMR spectrum of the monomer-4 vinyl benzyl polyethylene glycol methylether:



SEC elugram of P42922-Styreomer:



SEC elugram of the Polymer:

