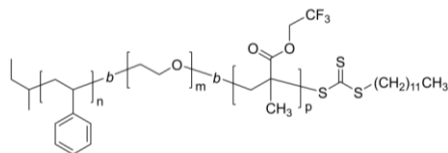


**Poly(styrene)-b-poly(ethylene oxide)-b-poly(2,2,2-trifluoroethyl methacrylate)**

**Sample #: P41632B-SEOMATRIF**

### Structure:



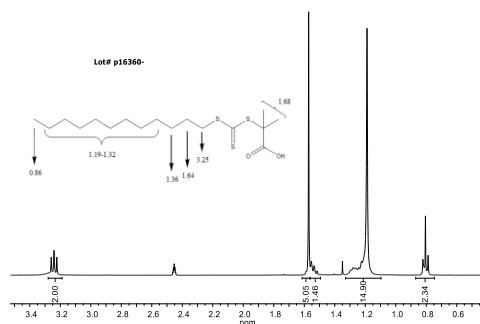
**Composition:**

Mn x 10 <sup>3</sup> S-b-EO-b-MATRIF	PDI
12.5-b-6.5-b-35.0	1.22

### Synthesis Procedure:

The diblock copolymer precursor was prepared by anionic polymerization, functionalized using the following RAFT reagent (below), and then extended with the third block.

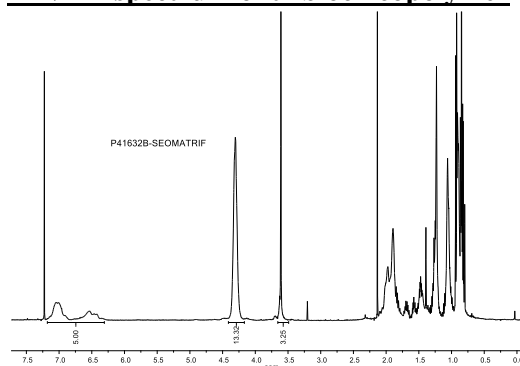
### HNMR spectrum of RAFT reagent:



### Characterization:

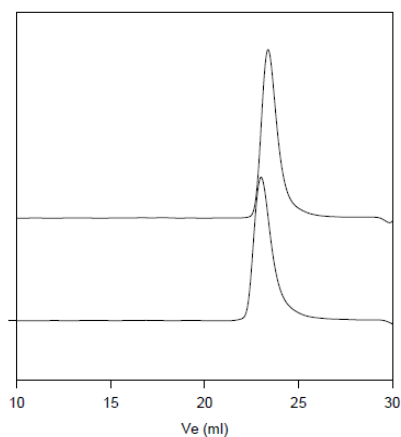
The products were characterized by SEC, FT-IR and  $^1\text{H}$  NMR.

### H NMR spectrum of triblock copolymer



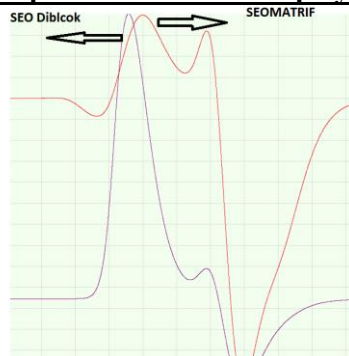
**SEC elugram(s) of diblock precursor:**

P40820-SEO

Size exclusion chromatography of poly(styrene-*b*-ethylene oxide)

— Poly(styrene),  $M_n=12,500$ ,  $M_w=13,600$ ,  $PI=1.06$   
 — Block Copolymer PSt(12,500)-*b*-PEO(6,500),  $PI=1.09$   
 The composition determined from HNMR.

### SEO profile of Triblock copolymer:



Because of presence of Fluorinated moiety the SEC of the triblock show elution volume retarded in comparison to its SEO diblock copolymer.