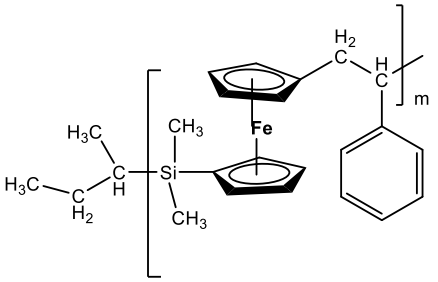
Sample Name: **Poly(styrene–co–ferrocenyl dimethylsilane), random**

Sample #: **P43650-SFESran**

Structure:



Composition:

Mn $\times 10^3$	Mw/Mn (PDI)
6.5	1.2

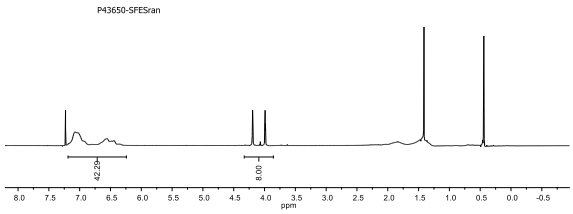
T_g for product 64 ºC
FES: 10 mol%

Synthesis Procedure:
Poly(styrene-Co-ferrocenyldimethylsilane**)** is prepared by anionic living polymerization process.

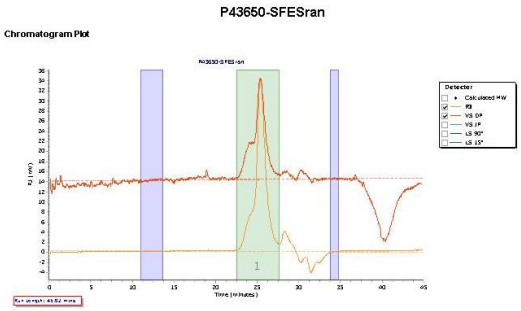
Characterization:
The product was characterized by size exclusion chromatography (SEC), ^{1}H NMR and DSC data analysis.

Solubility:
Polymer is soluble in THF, CHCl3, Toluene and precipitate out from ether and hexanes.

^{1}H NMR spectrum of the sample:



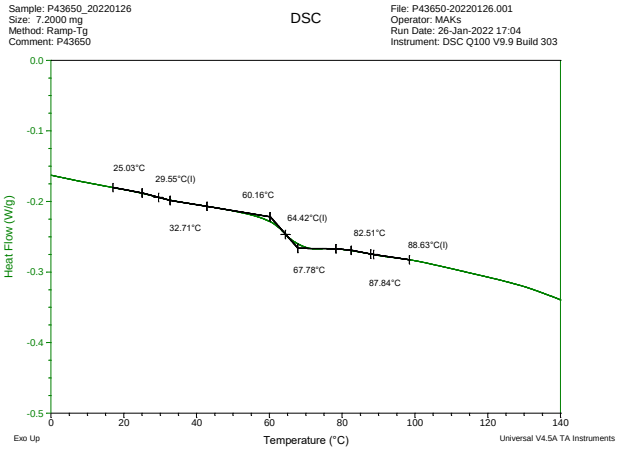
SEC profile of the copolymer:



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	6773	6386	7661	9428	11769	9052	1.2

DSC thermogram of the Sample:



Dependence of T_g from molecular weight for Polystyrene: