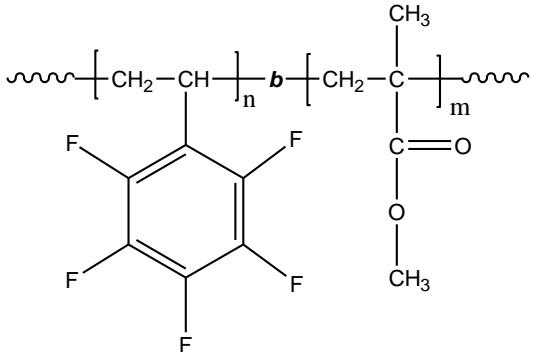


Sample Name: Poly(pentafluorostyrene-b-methyl methacrylate)
(polymethylmethacrylate rich in atactic contents)

Sample #: P14040-5FSMMA

Structure:



Composition:

Mn x 10 ³ 5FS-b-MMA	PDI
18.0-b-15.0	1.3
T _g for 5FSS block: 71 °C	T _g for PMMA block: Not distinct

Synthesis Procedure:

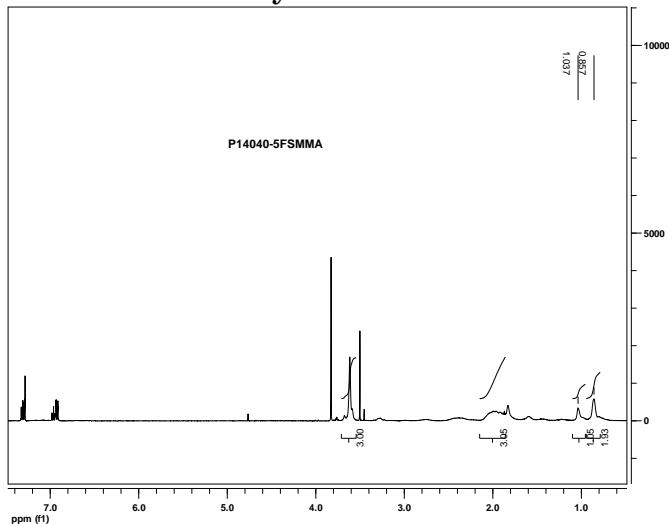
Polymer prepared by controlled radical process.

Characterization:

Polymer analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The final block copolymer composition was calculated from ¹H-NMR spectroscopy.

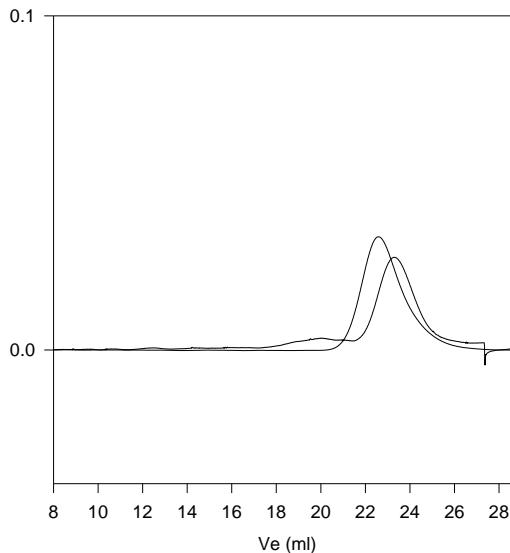
Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature (T_g) of the sample has been considered.

HNMR of the Polymer:



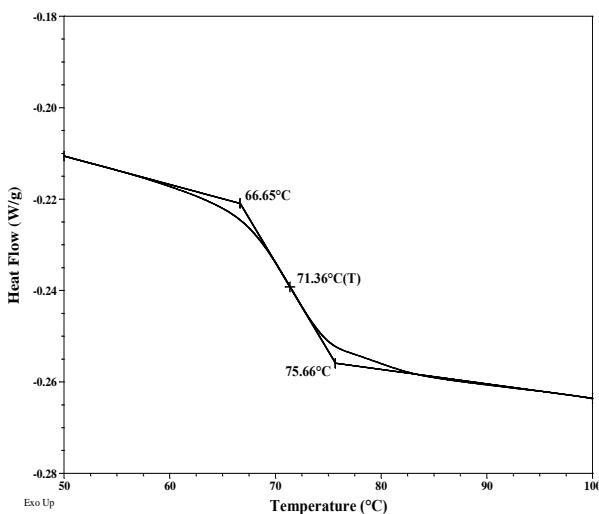
SEC of Sample

P14040- 5FSMMA



Size exclusion chromatography of polymer
— 5FS: M_n=18,000, M_w=23,500, Mw/Mn=1.3
5FS-b-MMA: Mn 18,000-b-15,000:Mw/Mn 1.3

Thermogram for the sample



References for further information:

1. S. K. Varshney, R. Fayt, Ph. Teyssie, and J.P. Hautekeer US Patent 5,264,527 (1993)
2. Ph. Teyssie, Ph. Bayard, R. Jerome, S. K. Varshney, and J. S. Wang, *35th IUPAC International Union of Pure & Applied Chemistry International Symposium on Macromolecules* 1994, 67.
3. Ph. Teyssie, R. Fayt, J. P. Hautekeer, C. Jacobs, R. Jerome, L. Leemans and S. K. Varshney *Makromolekular Chemie, Macromol. Symp.*, 1990, 32, 61-73.
4. S. K. Varshney, J. P. Hautekeer, R. Fayt, R. Jerome, and Ph. Teyssie *Macromolecules*, 1990, 23, 2618-2622.