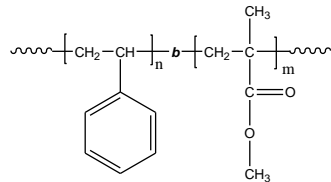


**Sample Name:** Poly (styrene-*b*-methyl methacrylate) (*polymethylmethacrylate rich in syndiotactic contents > 78%*)

**Sample #:** P19377A-SMMA

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup> S-b-MMA	PDI
707.0-b-884.0	1.05

T <sub>g</sub>	98.5°C
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**Synthesis Procedure:**

The diblock copolymer was prepared by anionic polymerization.

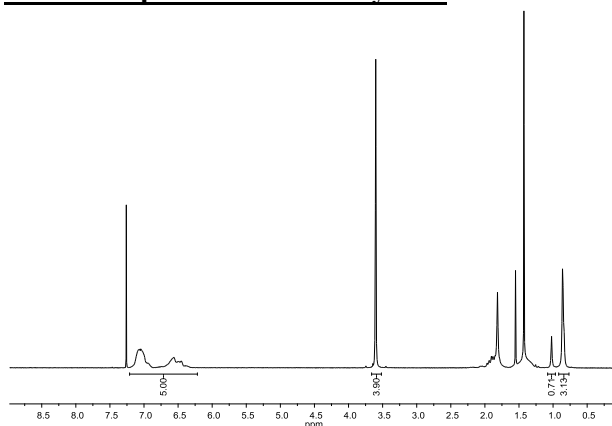
**Characterization:**

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

**Solubility:**

Poly (styrene-*b*-methyl methacrylate) is soluble in THF, toluene, dioxane and CHCl<sub>3</sub>. This polymer readily precipitates from methanol, ethanol, hexanes.

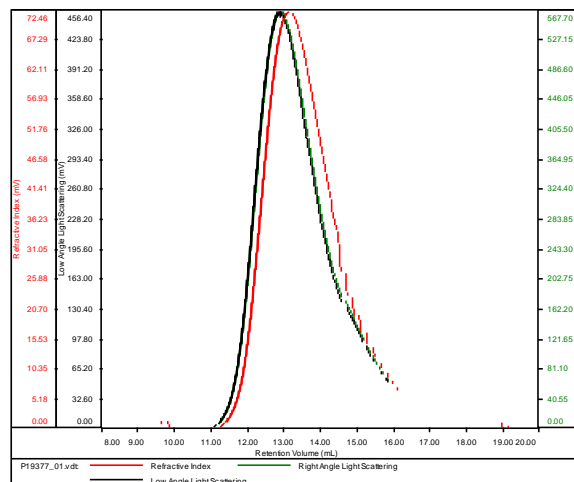
**<sup>1</sup>H-NMR Spectrum of the Polymer:**



**SEC elugram of the Sample:**

P19377A

Conc	6.3198
dn/dc	0.1100
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS80k_2018-03-09-0000.vcm

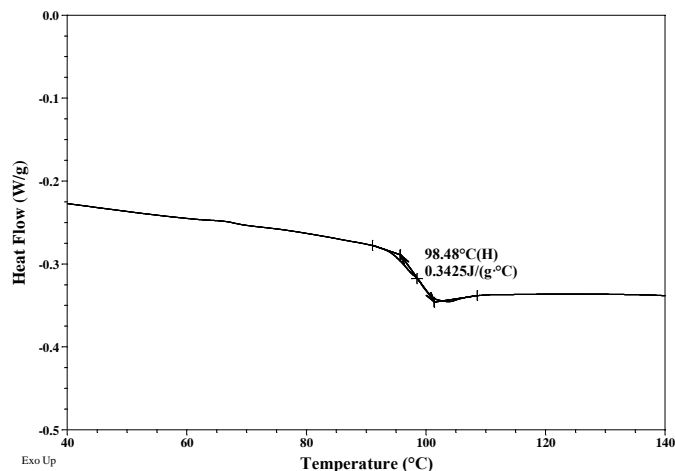


Sample	Mn	Mw	Mp	Mw/Mn	IV
P19377_01.vdt	1.591 e 6	1.661 e 6	1.634 e 6	1.044	0.9906

**DSC thermogram of the product:**

Sample: P19377A  
Size: 7.7000 mg

File: P19377A.001



**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, R. Fayt, J. P. Hautekeer, C. Jacobs, R. Jerome, L. Leemans and S. K. Varshney *Makromolekular Chemie, Macromol. Symp.*, 1990, 32,61-73.
3. S. K. Varshney, J. P. Hautekeer, R. Fayt, R. Jerome, and Ph. Teyssie *Macromolecules*, 1990, 23, 2618-2622.