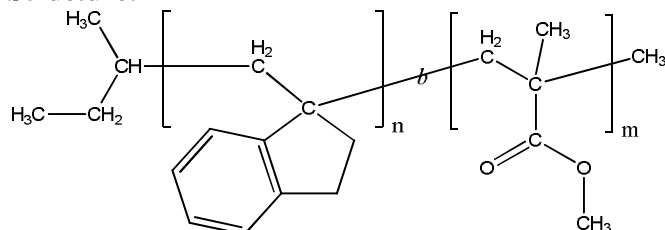


Sample Name:
Poly(α -methyleneindane -b- methylmethacrylate)

Sample #: P19548-MIMMA

Structure:



Composition:

Mn x 10 ³ MI-b-MMA	M _w /M _n
18.0-b-33.00	1.19
T _g	132 °C

Synthesis Procedure:

The polymer was synthesized by anionic process.

Characterization:

The polymer was analyzed by ¹H-NMR, FTIR, SEC, and DSC.

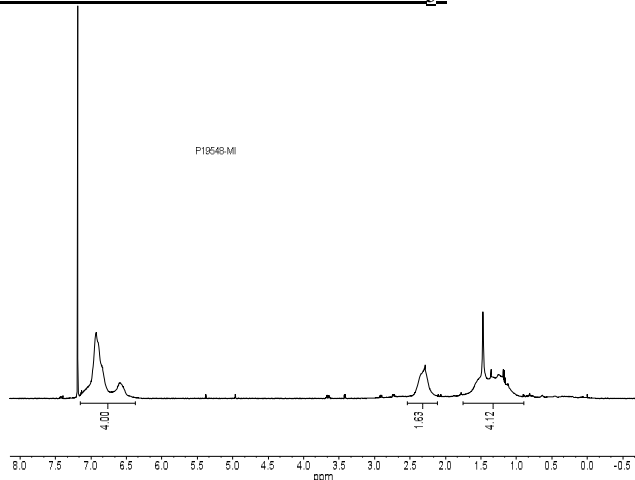
DSC thermal analysis:

Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T_g).

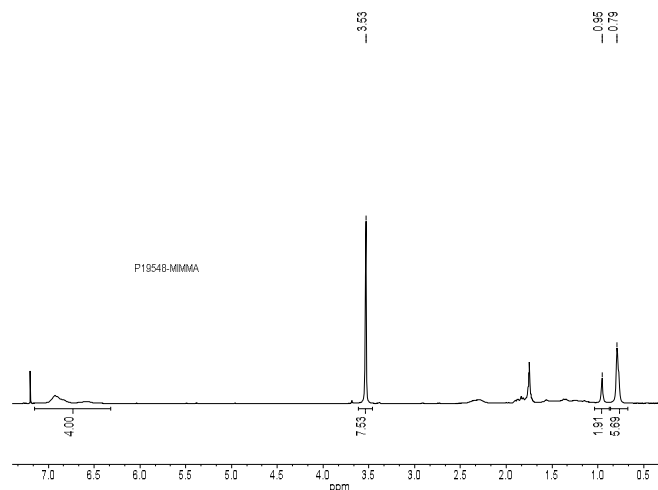
Solubility:

The polymer is soluble in THF, DMF.

¹H NMR of the first block in CDCl₃:



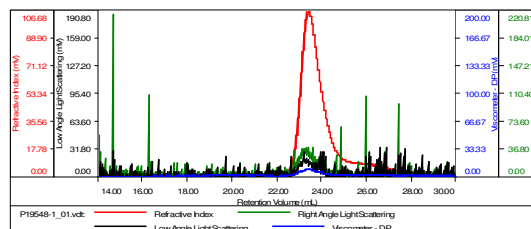
¹H NMR of MI-b-MMA diblock copolymer in CDCl₃



SEC of the first block:

Sample ID-P19548-MI

Concentration (mg/mL)	0.2600
Sample dn/dc (mL/g)	0.1650
Method File	PS80K-Nov-2015-0000.vcm
Column Set	3x PL 1113-6000
Solvent	THF

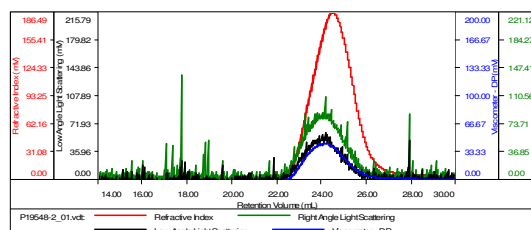


Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19548-1_01.vcl	18,227	20,675	19,144	1.134	1.0111

SEC of MI-b-MMA diblock copolymer:

Sample ID-P19548-MIMMA

Concentration (mg/mL)	1.5279
Sample dn/dc (mL/g)	0.1000
Method File	PS80K-Nov-2015-0000.vcm
Column Set	3x PL 1113-6000
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19548-2_01.vcl	48,582	59,189	53,971	1.194	1.9369

DSC thermogram (2nd heating run, 10°C/min):

Sample: P19548-MIMMA
Size: 4.5000 mg

DSC

File: P19548-MIMMA.001

