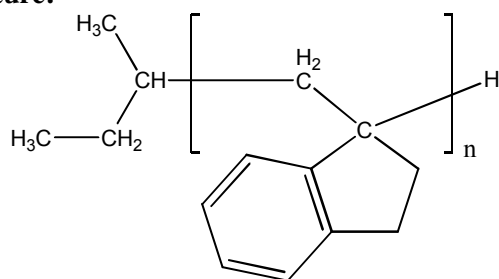


Sample Name: Poly(α -methyleneindane)

Sample #: 19622A-MI

Structure:



Composition:

$M_n \times 10^3$	PDI
11.5	1.55

T_g	133°C
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Synthesis procedure:

Poly(α -methyleneindane) was prepared by anionic process.

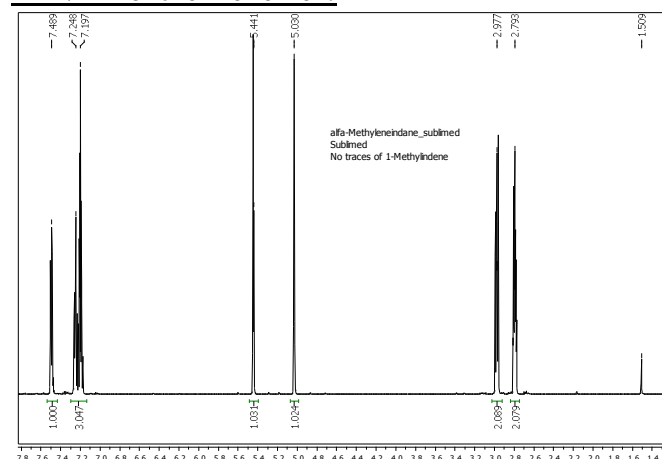
Characterization:

The polymer was characterized by ^1H NMR. Molecular weight and polydispersity index of the polymer were determined by size exclusion chromatography (SEC).

Thermal analysis:

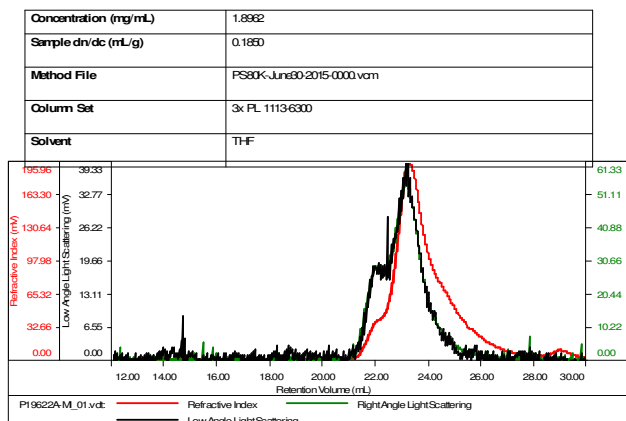
Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of $10^\circ\text{C}/\text{min}$. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T_g).

^1H NMR of the monomer:



SEC of the polymer in THF:

Sample ID: P19622A-MI



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19622A-MI_01.vcl	11,400	17,888	18,388	1.567	0.3160

DSC thermogram:

