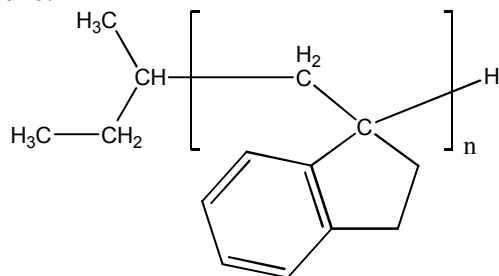


Sample Name: Poly( $\alpha$ -methyleneindane)

Sample #: 19622-MI

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
45.5	1.19

T <sub>g</sub>	135°C
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**Synthesis procedure:**

Poly( $\alpha$ -methyleneindane) was prepared by anionic process.

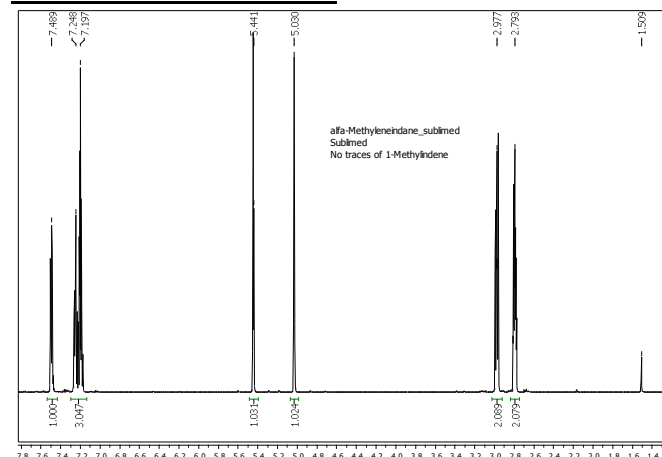
**Characterization:**

The polymer was characterized by <sup>1</sup>H 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°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<sub>g</sub>).

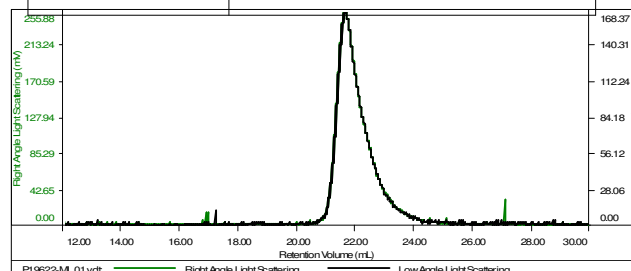
**<sup>1</sup>H NMR of the monomer:**



**SEC of the polymer in THF:**

**Sample ID-P19622-MI**

Concentration (mg/mL)	1.8072
Sample dn/dc (mL/g)	0.1860
Method File	PS80K-June00-2015-0000.vom
Column Set	3x PL 1113.6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19622-MI_01.vcl	45,563	54,178	70,694	1.189	0.5585

**DSC thermogram:**

Sample: P19622\_final  
Size: 3.3000 mg

DSC

File: P19622\_final.001

