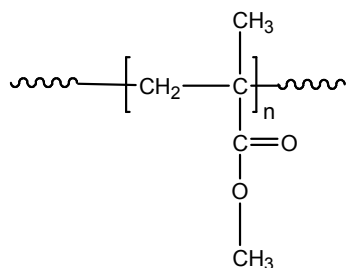


Sample Name: Poly (methyl methacrylate)
Atactic polymer

Sample #: P40549-MMA

Structure:



Composition:

Mn x 10 ³	PDI
7.0	1.5

Syndio : Hetero : Iso	38 : 57 : 5
T _g	109.4°C

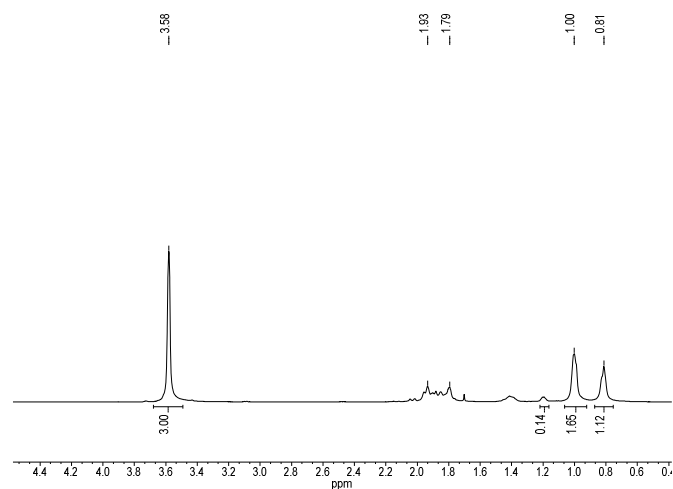
Synthesis Procedure:

The polymer was synthesized by anionic polymerization.

Characterization:

The product was characterized by size exclusion chromatography (SEC) and ¹H NMR.

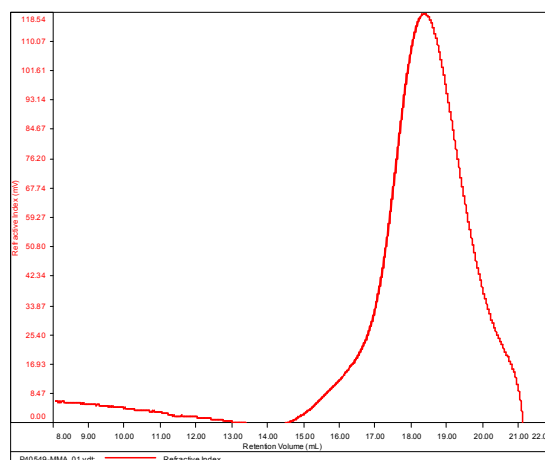
¹H NMR spectrum of PMMA:



SEC elugram of PMMA homopolymer:

P40549-MMA

Conc	27.7657
dn/dc	0.0650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS80k-March2017-0002.vcm

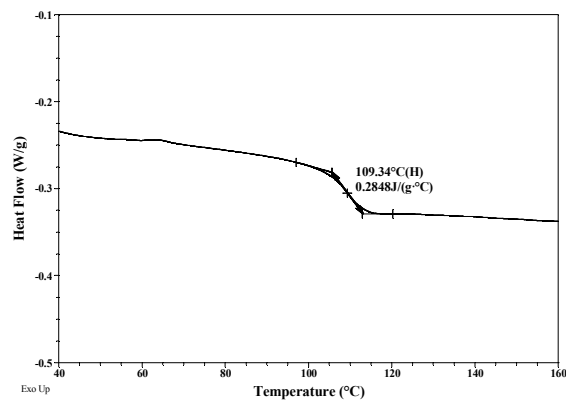


Sample	Mn	Mw	Mp	Mw/Mn	IV
P40549-MMA_01.vdt	6,740	10,175	6,696	1.510	0.0525

DSC thermogram of the polymer

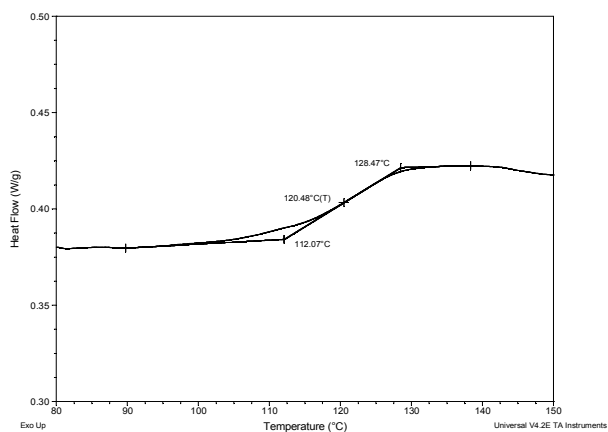
Sample: P40549
Size: 5.5000 mg

File: P40549-MMA.001

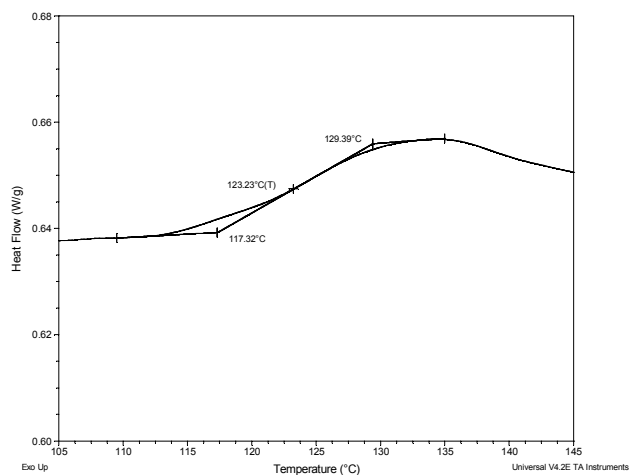


Thermograms of PMMA:

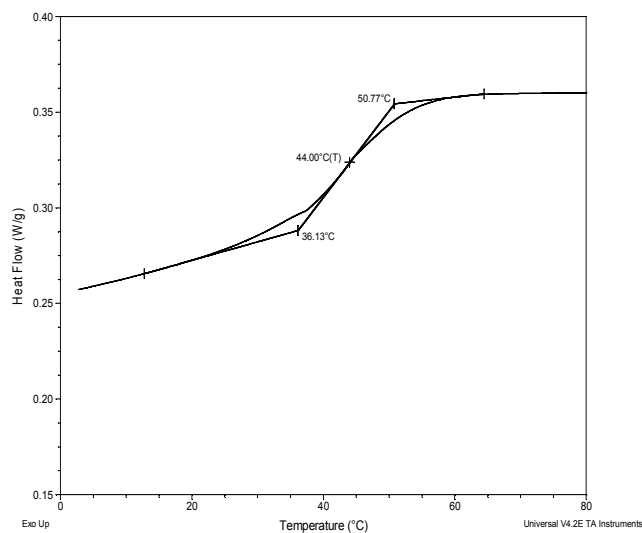
(a) syndiotactic >79%



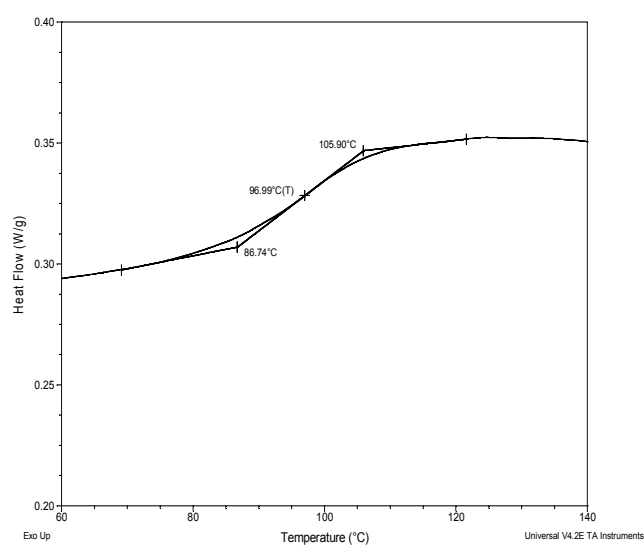
(b) syndiotactic >85%



(c) isotactic >97%



(d) atactic



**Summary of DSC results for PMMA
of different tacticity:**

<i>PMMA microstructure</i>	<i>Tacticity Syndio : Iso : Hetero</i>	<i>T_g (°C)</i>
Syndiotactic >79%	79 : 19 : 2	120
Syndiotactic >85%	86 : 0 : 14	123
Isotactic >97%	0 : 97 : 3	44
Atactic	56 : 6 : 38	97