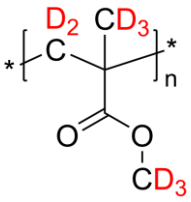
Sample Name: **Poly (methyl methacrylate)-d_8**
Atactic rich

Sample #: **P9777-dPMMA (Lot# P43275)**

Structure:



Composition:

Mn × 10^3	PDI
2.6	1.18

T_g (°C):80

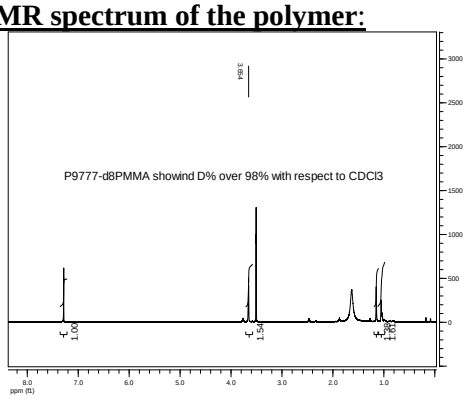
Synthesis Procedure:
Deuterated poly(methyl methacrylate)-d_8 is obtained by living polymerization process.

Characterization:
The product was characterized by size exclusion chromatography (SEC) and ^{1}H NMR and D NMR data analysis.

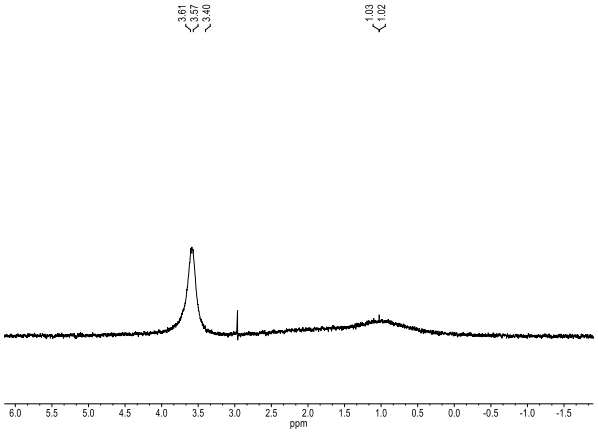
Thermal analysis:
Thermal analysis of the samples was carried out on a TA Q100 DSC at a heating rate of 10 ºC/min. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T_g).

Solubility:
Deuterated poly(methyl methacrylate)-d_8 is soluble in THF, $CHCl_3$, toluene and dioxane. The polymer precipitates from hexanes, methanol and ethanol.

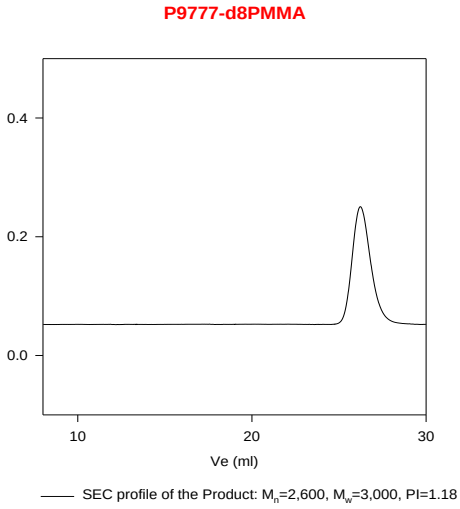
HNMR spectrum of the polymer:



DNMR spectrum of the Sample:



SEC profile of Homopolymer:



DSC thermogram for the polymer: