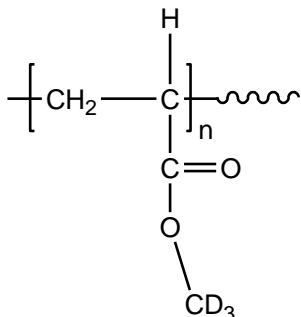


Sample Name: Deuterated Poly(methylacrylate)
Ester group deuterated

Sample #: P42726-2-d3MA

Structure:



Composition:

Mn x 10 ³	PDI
12.0	1.03

Synthesis: The polymer is prepared by RAFT polymerization process.

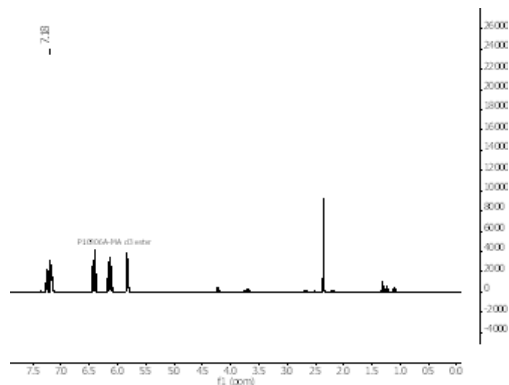
Characterization:

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

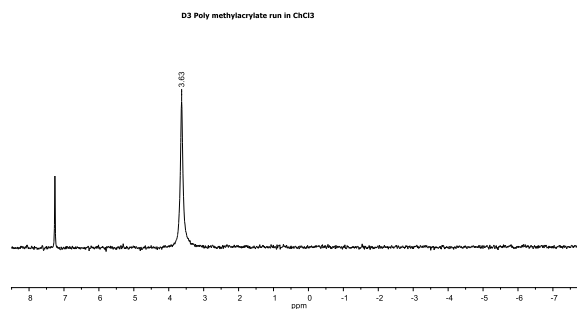
Solubility:

Deuterated Poly(methyl acrylate) is soluble in THF, CHCl₃ and Toluene.

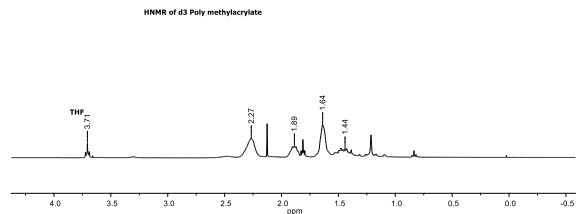
¹H-NMR spectrum of the monomer:



D-NMR spectrum of the polymer:



¹H-NMR spectrum of the polymer:



SEC elugram of the Sample:

