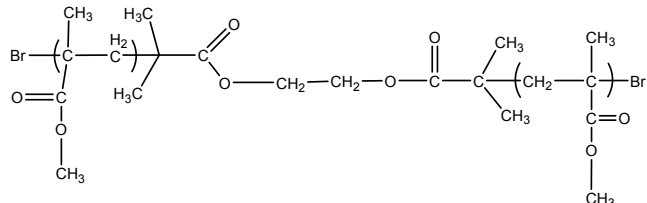


Sample Name:

α , ω - dibromo functional Poly(methyl methacrylate)
(Macroinitiator for ATRP)

Sample #: **P11120-MMA2Br**

Structure:

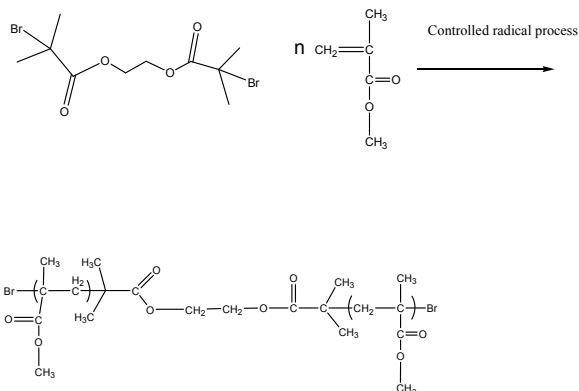


Composition:

Mn x 10 ³	PDI
18.2	1.5
Microstructure S:H:I 59:37:4	

Synthesis Procedure:

The difunctional macroinitiator of PMMA is prepared by ATRP using difunctional initiator. The scheme of the reaction is illustrated below:

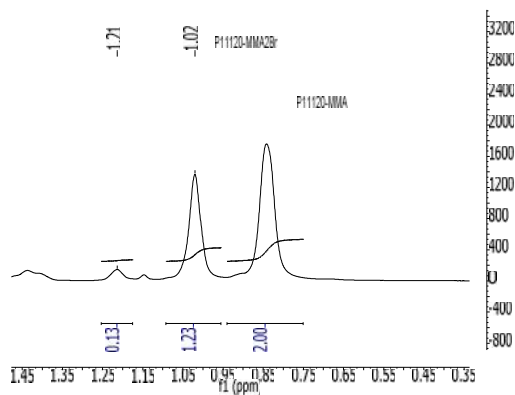


Characterization:

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

Solubility:

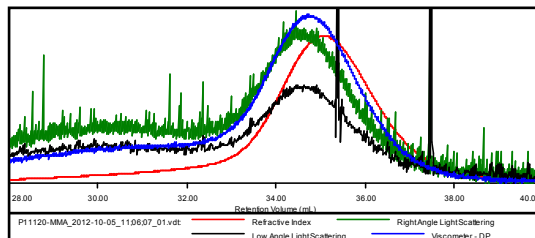
Polymer is soluble in THF, toluene and CHCl₃. It precipitates from methanol, ethanol, water and hexanes.



SEC of Sample:

Sample ID: P11120-MMA

Concentration (mg/mL)	10.0084
Sample dn/dc (mL/g)	0.0840
Method File	PS80K-Oct-2012-0001.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn (Da)	Mw (Da)	Mp (Da)	Mw/Mn	IV (dL/g)
P11120-MMA_2012-10-05_11:06:07_01.	18,135	27,529	17,314	1.518	0.1734

