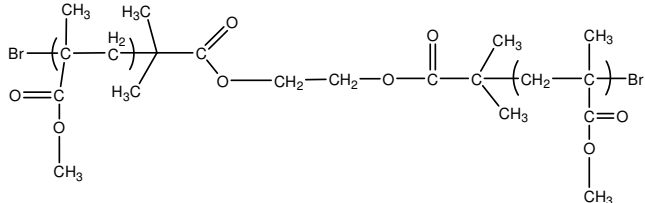


Sample Name:

**$\alpha$ ,  $\omega$ -dibromo functional Poly(methyl methacrylate)**  
(Macroinitiator for ATRP)

Sample #: **P14491-MMA2Br**

Structure:

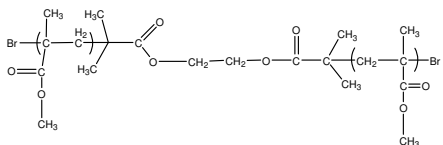
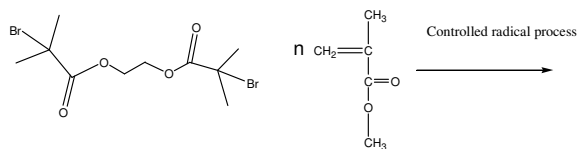


Composition:

Mn x 10 <sup>3</sup>	PDI
12.0	2.14

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 light scattering and refractive index detector.

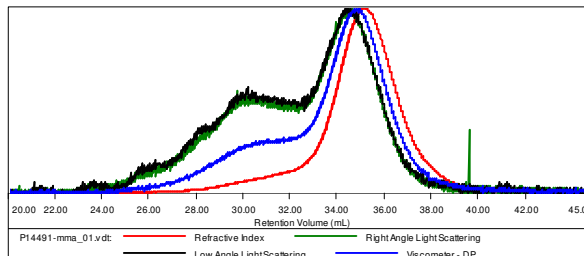
Solubility:

Polymer is soluble in THF, toluene and CHCl<sub>3</sub>. It precipitates from methanol, ethanol, water and hexanes.

Light Scattering SEC of Sample:

Sample ID: P14491-MMA2Br

Concentration (mg/mL)	10.5816
Sample dn/dc (mL/g)	0.0840
Method File	PS80K-May-2013-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
P14491-mma_01.vdt	12,192	26,055	13,874	2.137	0.2977

