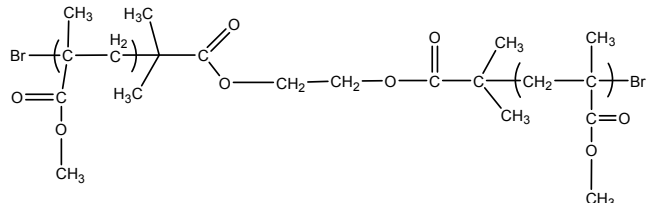


Sample Name:

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

Sample #: **P14508-MMA2Br**

Structure:

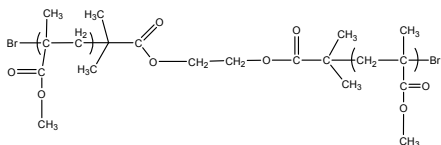
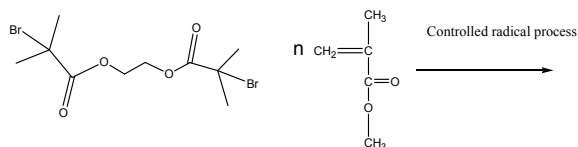


Composition:

Mn x 10 ³	PDI
237.0	1.24

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.

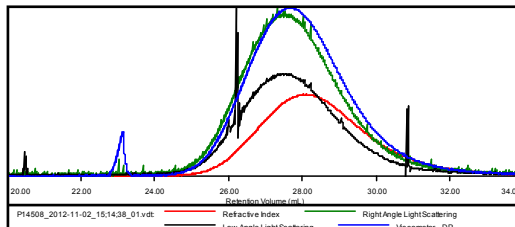
Solubility:

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

Light Scattering SEC of Sample:

Sample ID: P14508-MMA2Br

Concentration (mg/mL)	6.5259
Sample dn/dc (mL/g)	0.0840
Method File	PS80K-Oct-2012-0002.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn (Da)	Mw (Da)	Mp (Da)	Mw/Mn	IV (dL/g)
P14508_2012-11-02_15;14;38_01.vdt	237,038	294,312	289,027	1.242	0.8281

