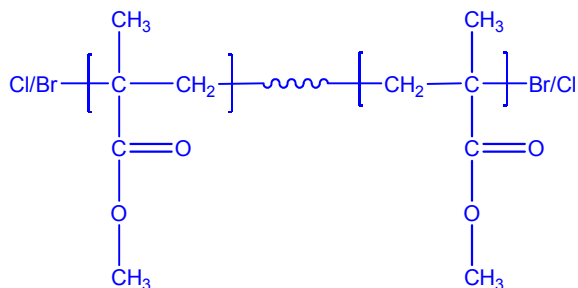


Sample Name:

**$\alpha,\omega$ -Halide difunctional Poly(methyl methacrylate)**  
(Macroinitiator for ATRP)

Sample #: P6596A-MMA2Br

**Structure:**

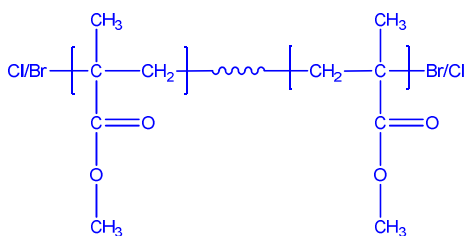
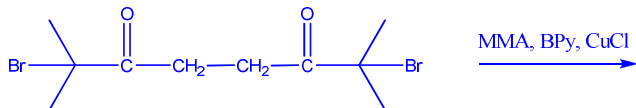


**Composition:**

Mn x 10 <sup>3</sup>	PDI
12.5	1.39

**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 CHCl<sub>3</sub>. It precipitates from methanol, ethanol, water and hexanes.

**SEC elugram of the polymer:**

