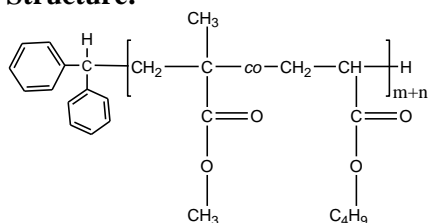


**Sample Name:** Random Copolymer Poly(methyl methacrylate-co-t-butyl acrylate)

**Sample #:** P1701-MMAtBuAran

**Structure:**



**Composition:**

PMMA : 36 mole%

Mn x 10 <sup>3</sup> PMMA-co-PtBA	PDI
96.0	1.13
T <sub>g</sub> of random polymer	53°C

**Synthesis Procedure:**

The polymer was synthesized by anionic polymerization process.

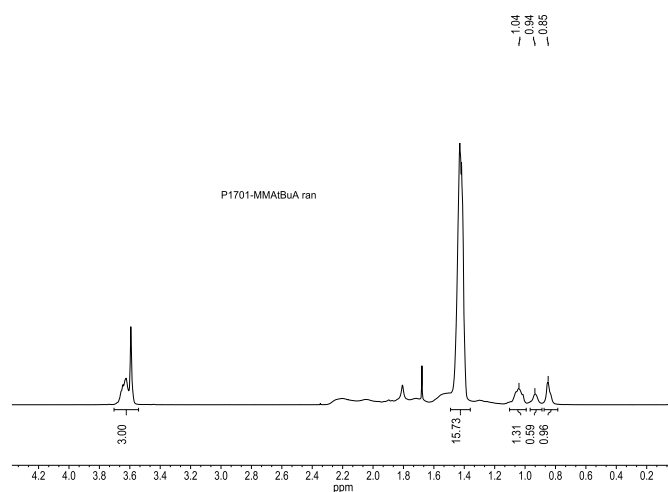
**Characterization:**

The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>H NMR.

**Solubility:**

The polymer is soluble in CHCl<sub>3</sub>, THF, DMF, toluene and precipitated out from methanol and water.

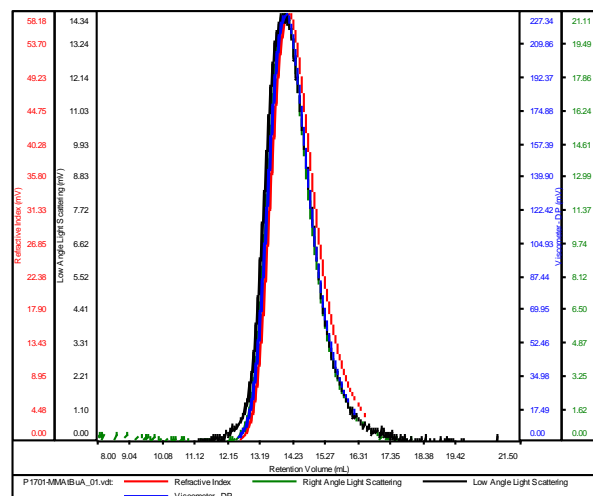
**<sup>1</sup>H NMR spectrum of the polymer:**



**SEC of the random copolymer:**

P1701--MMAtBuAran

Conc	11.4021
dn/dc	0.0650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS80k-May2017-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P1701-MMAtBuA_01.vdt	95,821	109,016	106,453	1.138	0.3638

**DSC Thermogram of the sample:**

