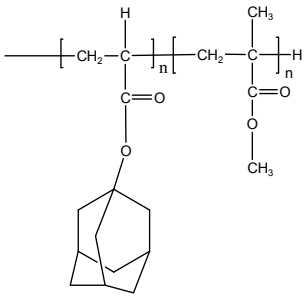
Sample Name:
Poly (1-Adamantyl acrylate-b-methylmethacrylate)

Sample #: **P40321-ADMAMMA**

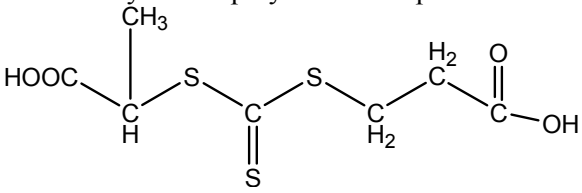
Structure:



Composition:

Mn x 10^3 ADMA-b-PMMA	**PDI**
5.0-b-58.0	1.6
T_g for ADMA block:	112

Synthesis Procedure:
Poly (1-Adamantyl acrylate-b-methylmethacrylate) is obtained by RAFT polymerization process:



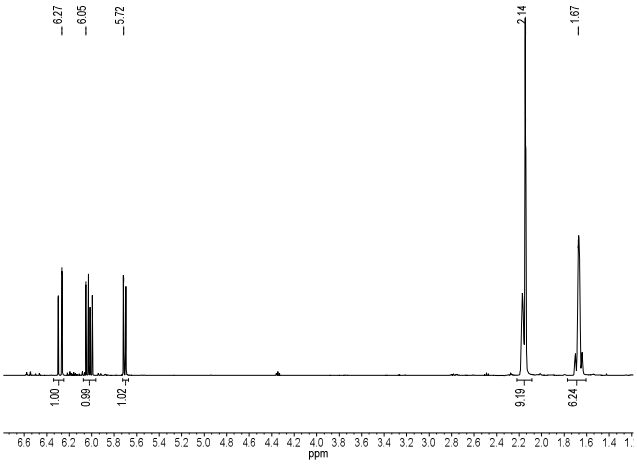
Characterization:
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) using THF as an eluant.

Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min.The inflection glass transition temperature (T_g) of the sample has been considered.

^{1}H NMR (500 MHz, DMSO-d_6):

Solubility:
Poly (1-Adamantyl acrylate-b-methylmethacrylate) is soluble in THF and Chloroform. The polymer precipitates from hexanes, methanol, ethanol and acetone.

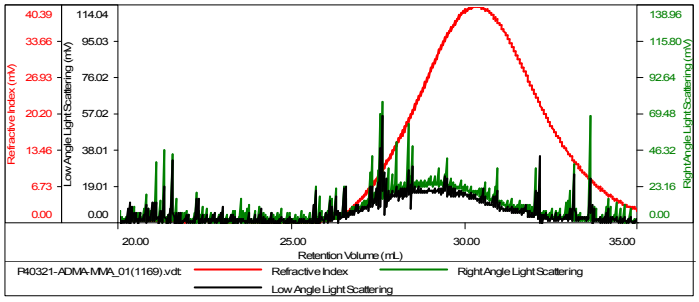
^{1}HNMR Spectrum of the (1-Adamantyl acrylate) Monomer run in CDCl3:



SEC elugram of the Sample:

P40321-MMAADMA

Concentration (mg/mL)	5.3115
Sample dn/dc (mL/g)	0.0840
Method File	PS80K-Nov2016-6-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn (Da)	Mw (Da)	Mw/Mn	IV (dL/g)	Mp (Da)
P40321-ADMA-MMA_0	62,653	100,049	1.597	0.3733	69,480