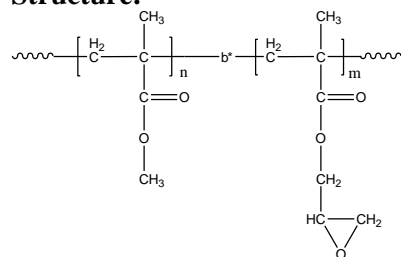


Sample Name: Poly(Methyl methacrylate-b-Glycidyl methacrylate)

Sample #: P14427-MMAGMA

Structure:



Composition:

$M_n \times 10^3$ MMA-b-GMA	PDI
9.5-b-32.5	1.18

Synthesis Procedure:

Poly(Methyl methacrylate-b-glycidyl methacrylate) block copolymer is synthesized by group transfer polymerization with sequential addition of methyl methacrylate and glycidyl methacrylate. The obtained polymer was precipitated into methanol.

Characterization:

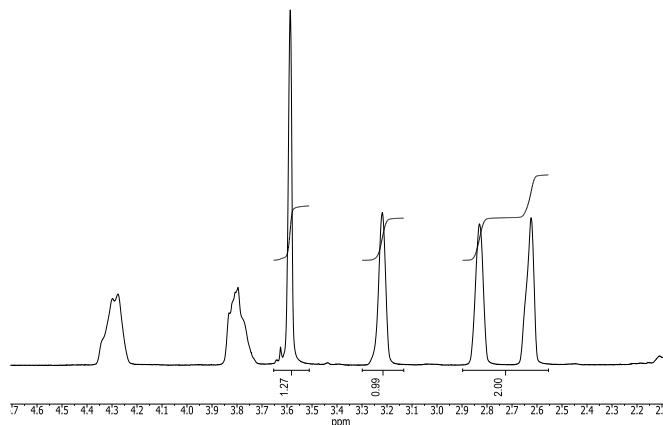
SEC analysis of the obtained block copolymer was carried out in THF in presence of triethyl amine as eluent and using light scattering detector to determine molecular weight and polydispersity.

The composition of block copolymer characterized by $^1\text{H-NMR}$ spectroscopy in CDCl_3 by comparing methyl group in MMA block at 3.6 ppm and methylene group in GMA block at 2.8 and 2.6 ppm.

Solubility:

The block copolymer is soluble in THF and CHCl_3 .

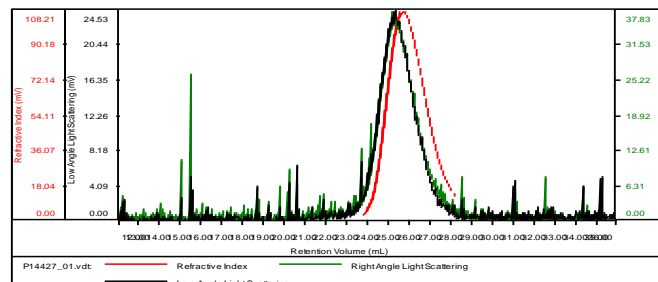
$^1\text{H-NMR}$ Spectrum of the block copolymer:



SEC elugram of the block copolymer:

P14427-MMA-b-GMA

Concentration (mg/mL)	13.9674
Sample dn/dc (mL/g)	0.0840
Method File	PS80K-jan-2018-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	M_n (Da)	M_w (Da)	M_w/M_n	IV (dL/g)	M_p (Da)
P14427_01.vdt	41,854	49,191	1.175	0.1056	49,090