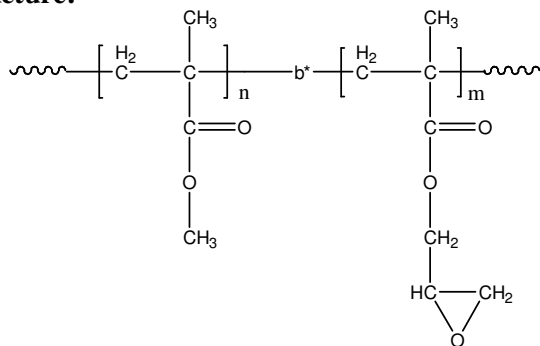


Sample Name:

Poly(Methyl methacrylate-b-Glycidyl methacrylate)

Sample #: P18474-MMAGMA

Structure:



Composition:

Mn × 10 ³ MMA-b-GMA	PDI
14.0-b-40.0	1.27

PMMA Microstructure:	syndio : hetero : iso 73 : 20 : 7
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Synthetic Procedure:

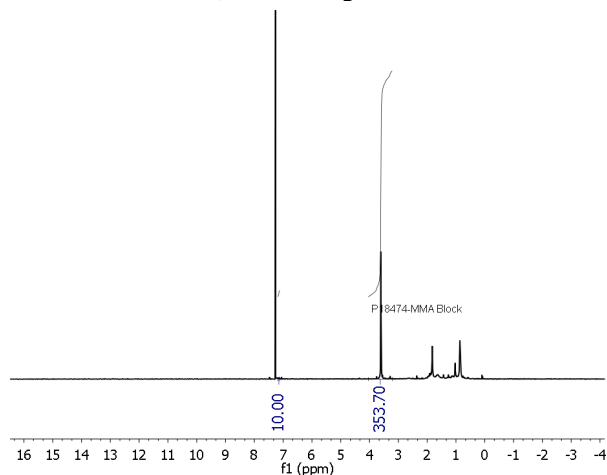
Poly(methyl methacrylate-b-glycidyl methacrylate) block copolymer was synthesized by anionic process.

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.

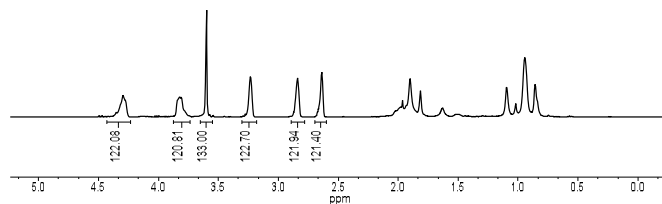
The composition of block copolymer was calculated by ¹HNMR spectroscopy by comparing methyl group in MMA block at 3.6 ppm and methylene group in GMA block at 2.8 and 2.6 ppm.

¹H-NMR (500MHz, CDCl₃) spectra of PMMA block:



¹H-NMR (500MHz, CDCl₃) of block copolymer:

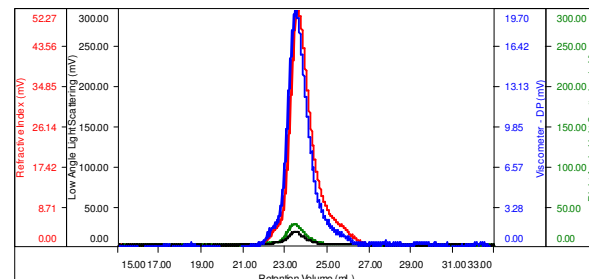
P18474-MMAGMA



SEC of block copolymer:

Sample ID: P18474-MMAGMA

Concentration (mg/mL)	1.9126
Sample dn/dc (mL/g)	0.0840
Method File	PS80K-March13-2014-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18474-MMAGMA_01.vdt	54,654	69,647	70,743	1.274	0.2430