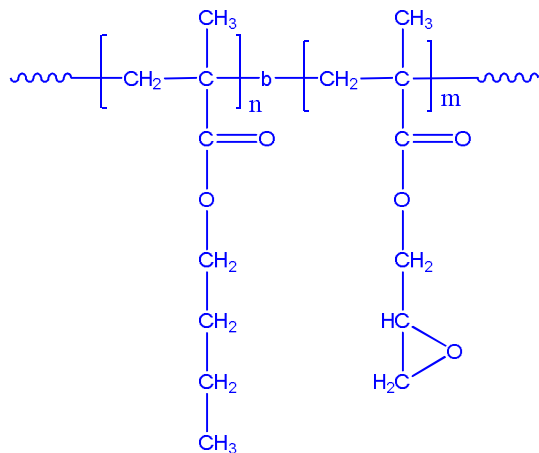


**Sample Name:**

Poly( n-butyl methacrylate-b-glycidyl methacrylate)

**Sample #:** P6812-nBuMAGMA

**Structure:****Composition:**

$M_n \times 10^3$ nBuMA-b-GMA	PDI
36.0-b-23.2	1.34

**Synthesis Procedure:**

Poly(n-butyl methacrylate -b- glycidyl methacrylate) block copolymer is synthesized by GTP polymerization with sequential addition of n-butyl methacrylate and -glycidyl methacrylate. The obtained polymer was precipitated in methanol.

**Characterization:**

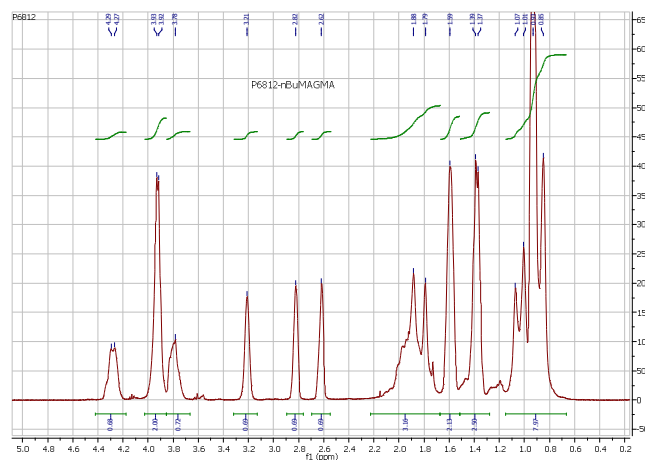
SEC analysis of the obtained block copolymer in THF in presence of triethyl amine as eluent . The final block copolymer composition by  $^1\text{H}$ -NMR spectroscopy in  $\text{CdCl}_2$  Block copolymer PDI is determined by SEC.

**Thermal analysis:**

Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of  $10^\circ\text{C}/\text{min}$ . The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature ( $T_g$ ).

**Solubility:**

Polymer is soluble in THF and  $\text{CHCl}_3$ .

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