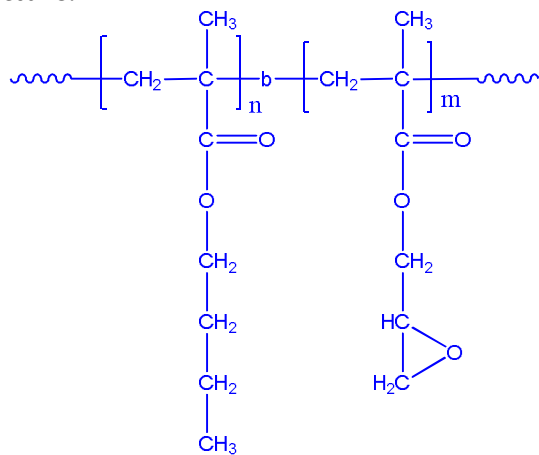


**Sample Name:**

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

**Sample #:** P6808-nBuMAGMA

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

Mn × 10 <sup>3</sup> nBuMA-b-GMA	PDI
13.0-b-3.0	1.36

**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 .

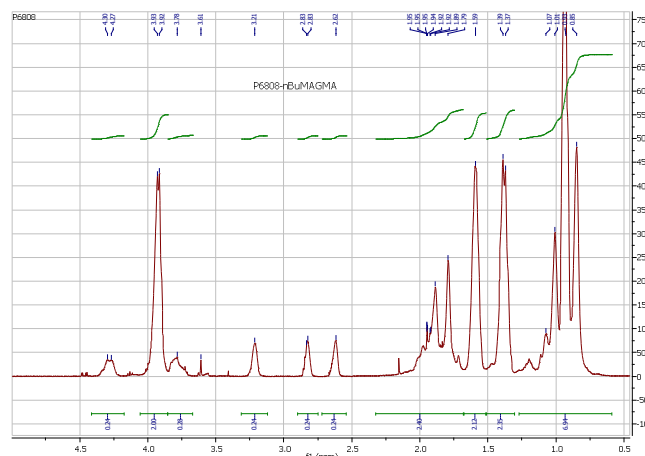
The final block copolymer composition by <sup>1</sup>H-NMR spectroscopy in CdCl<sub>3</sub> Block copolymer PDI is determined by SEC.

**Thermal analysis:**

Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/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<sub>g</sub>).

**Solubility:**

Polymer is soluble in THF and CHCl<sub>3</sub>.

**<sup>1</sup>H-NMR Spectrum of the block copolymer:****SEC of the block copolymer:**