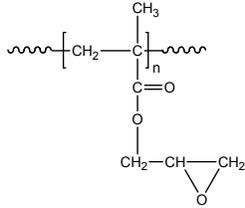


Sample Name:
Poly(glycidyl methacrylate)

Sample #: P14092-GMA
 (by GTP process)

Structure:

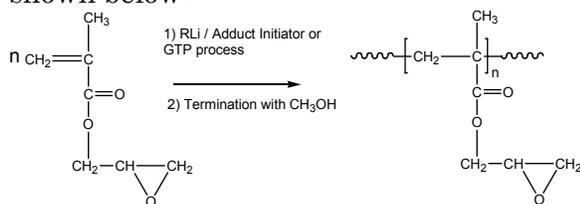


Composition:

Mn x 10 ³	PDI
36.0	1.6
T _g (°C)	72
Microstructure S:H:I	
55:333:12	

Synthesis Procedure:

Poly(glycidyl methacrylate) is obtained by living anionic /GTP polymerization of glycidyl methacrylate. The reaction scheme used for the polymer synthesis is shown below:



Characterization:

The molecular weight and polydispersity index (PDI) of Poly(glycidyl methacrylate) are obtained by size exclusion chromatography.

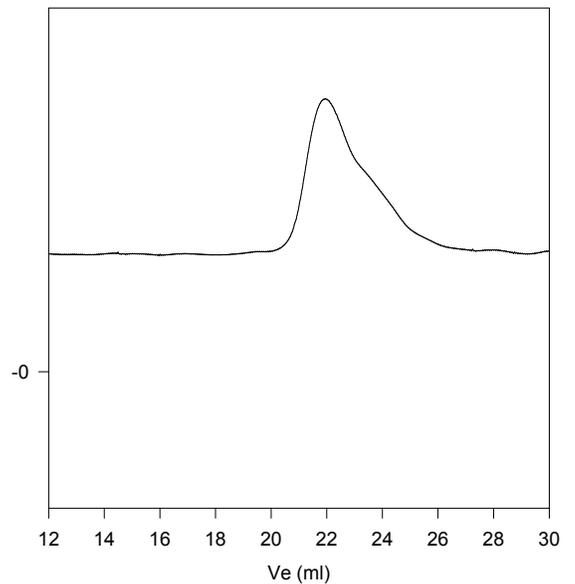
Thermal analysis

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_g).

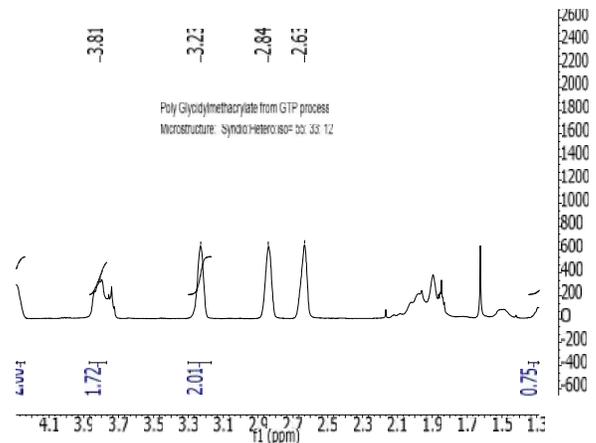
Solubility:

Poly(glycidyl methacrylate) is soluble in THF, CHCl₃, toluene and dioxane. The polymer precipitates from cold methanol and ethanol.

SEC of Homopolymer:
P14092-GMA



Size Exclusion Chromatography of Poly(glycidyl methacrylate)
 M_n=36,000, M_w=57,600, PI=1.6



DSC thermogram for the polymer:

