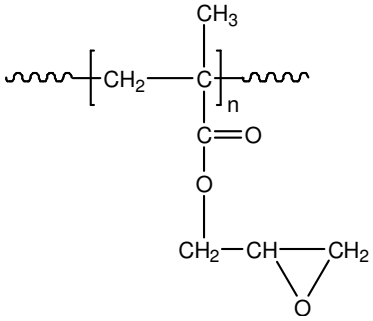
Sample Name: **Poly(glycidyl methacrylate)**

Sample #: **P18496-GMA (by GTP process)**

Structure:

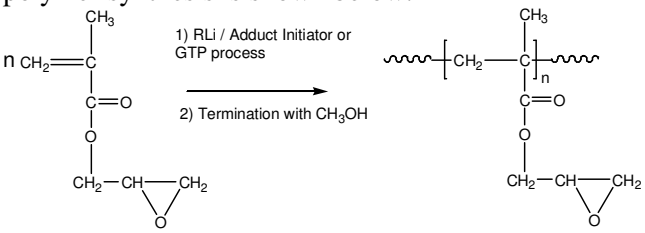


Composition:

Mn x 10^3	PDI
13.0	1.37
T_g (^oC)	72
Microstructure: Syndio:Hetero:iso = 55: 33: 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).

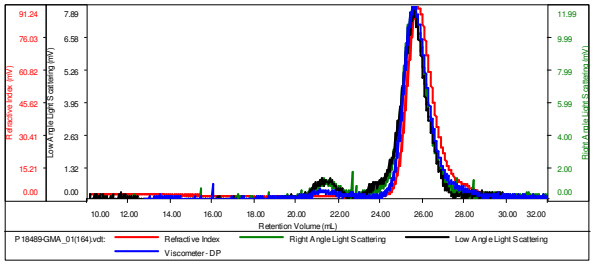
Solubility:

Poly(glycidyl methacrylate) is soluble in THF, $CHCl_3$, toluene and dioxane. The polymer precipitates from cold methanol and ethanol.

SEC of Homopolymer:

Sample ID: P18496-GMA

Concentration (mg/mL)	4.7541
Sample dn/dc (mL/g)	0.0840
Method File	PS80K-Feb10-2014-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18489-GMA_01(164).vdt	13,152	18,003	17,640	1.369	0.1082

DSC thermogram of the polymer: