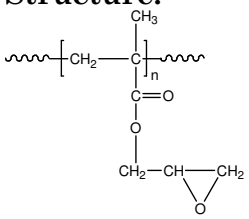
Sample Name:
Poly(glycidyl methacrylate)

Sample #: **P18484-GMA**
(by Anionic process)

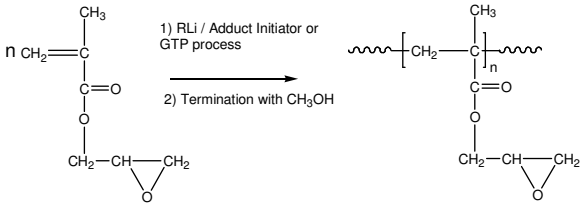
Structure:



Composition:

Mn x 10^3	PDI
40.5	1.65
T_g (^oC)	72

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.

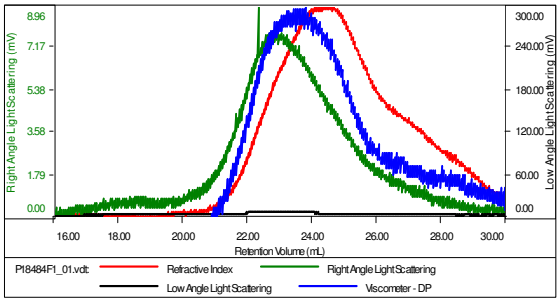
Thermal analysis:
Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10^{o}C/min.The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T_g).

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: P18484-GMA

Concentration (mg/mL)	2.4089
Sample dn/dc (mL/g)	0.0840
Method File	PS80K-0903-2014-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersit	Intrinsic Viscosity (dL/g)
P18484F1_01.vdt	40,445	66,367	51,192	1.641	0.1519

DSC thermogram of the polymer: