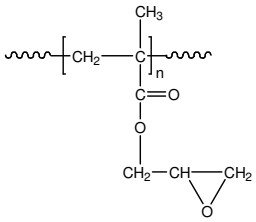
Sample Name: **Poly(glycidyl methacrylate)**
Sample #: **P14819-GMA**
Polymer obtained by RAFT process

Structure:



Composition:

Mn x 10^3	PDI
310.0	1.38
T_g (^oC)	72
Microstructure: Syndio:Hetero:iso = 55: 33: 12	

Synthesis Procedure:
By RAFT process

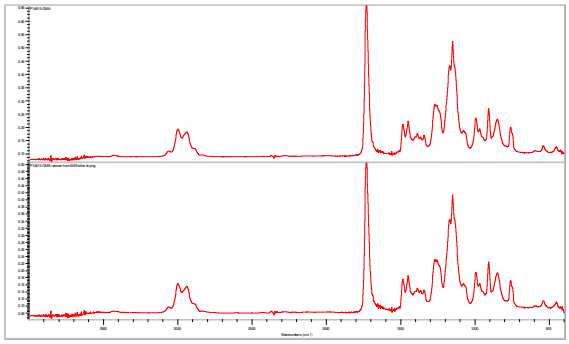
Characterization:
BY SEC, HNMR analysis

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).

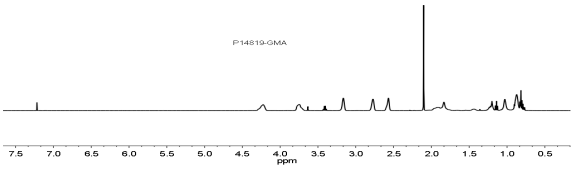
- Polymer should be free from un-reacted monomer and it must be verified by HNMR to avoid any cross-linking with the unreacted monomer. Polymer should be dried at room temperature under vacuum to avoid and thermal polymerization from epoxy ring of glycidylmethacrylate

Solubility:
Poly(glycidyl methacrylate) is soluble in MEK, THF, $CHCl_3$.

FTIR:



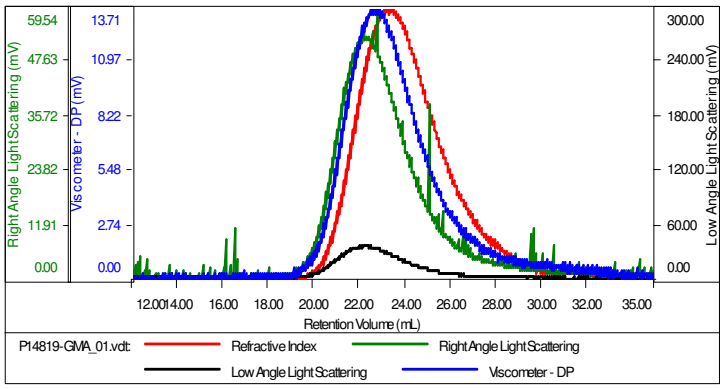
H NMR:



SEC of Homopolymer:

Sample ID: P14819-GMA

Concentration (mg/mL)	1.5386
Sample dn/dc (mL/g)	0.0840
Method File	PS80K-Dec17-2014-0000.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)
P14819-GMA_01.vdt	309,274	425,504	380,616	1.376	0.8204

DSC thermogram of the polymer: