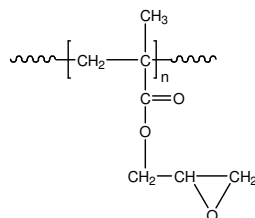


Sample Name: Poly(glycidyl methacrylate)

Sample #: P14822-GMA

Polymer obtained by RAFT process

Structure:



Composition:

Mn x 10 ³	PDI
577.0	1.5
T _g (°C)	72
Microstructure: Syndio:Hetero:iso = 55: 33: 12	

Synthesis Procedure:

By RAFT process

Characterization:

BY SEC, HNMR analysis

Thermal analysis

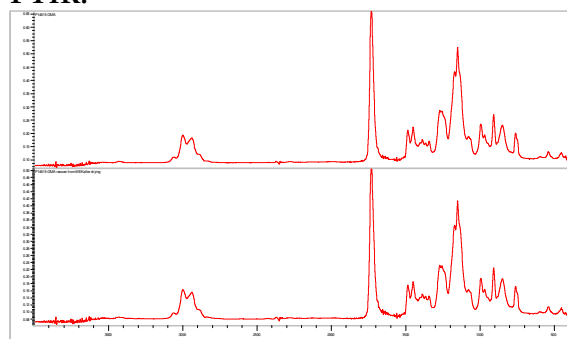
Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T_g).

- 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

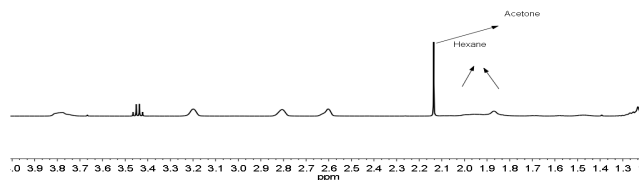
Solubility:

Poly(glycidyl methacrylate) is soluble in MEK, THF, CHCl₃.

FTIR:



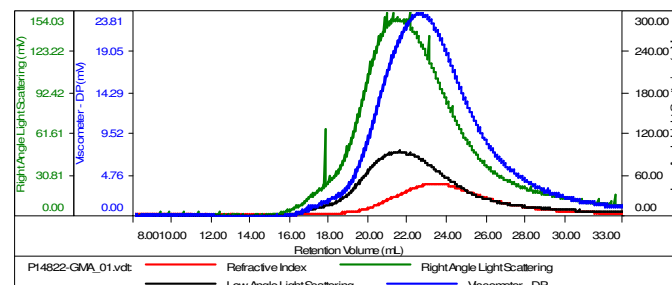
HNMR:



SEC of Homopolymer:

Sample ID: P14822-GMA

Concentration (mg/mL)	3.3335
Sample dn/dc (mL/g)	0.0940
Method File	PS80K-Dec17-2014-0000.vom
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P14822-GMA_01.vdt	576,915	870,445	614,717	1.509	0.8946

DSC thermogram of the polymer:

