

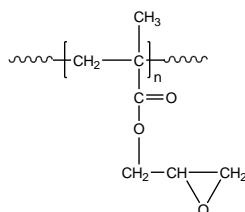
# Product Profile

## Identification

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

**Product Lot Number:** P18993A-R-GMA

**Product Chemical Architecture:**

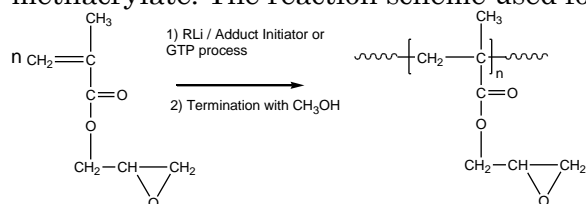


## Composition:

<b>Mn (g/mole)</b>	<b>99,000</b>
<b>Mw (g/mole)</b>	<b>148,000</b>
<b>Mw/Mn</b>	<b>1.50</b>
<b>Tg</b>	<b>72°C</b>
<b>dn/dc (mL/g)</b>	<b>0.084 in THF</b>

## Method of Synthesis

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



## Solubility in different solvents

THF	√	Alcohol	X
1,4-dioxane	√	CHCl <sub>3</sub>	√

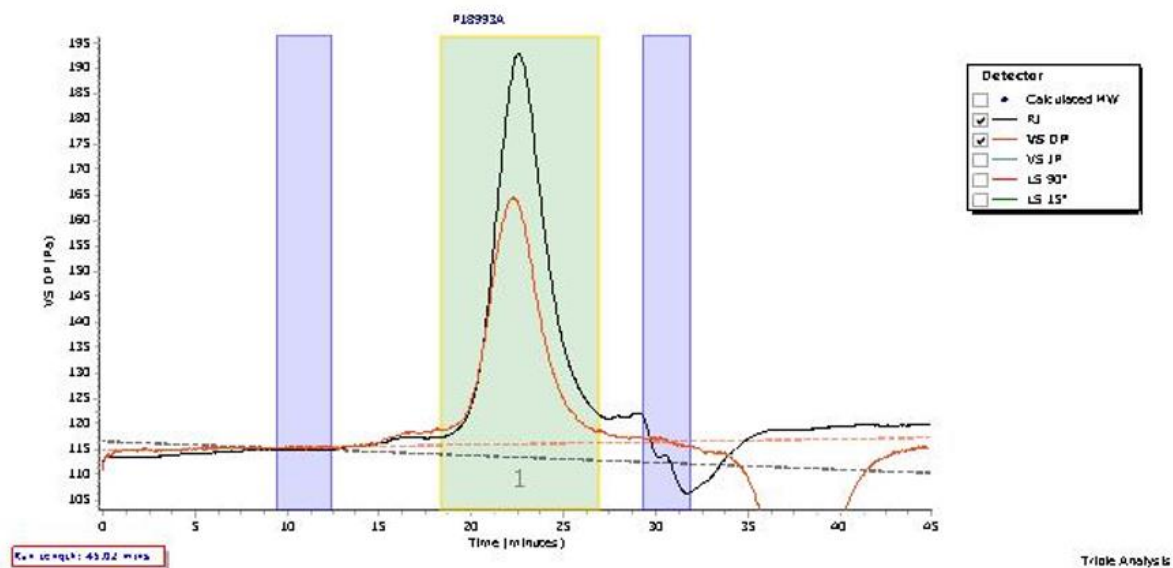
## Validation of Architecture

### A. Gel Permeation Chromatography (GPC), SEC- Profile:

Molecular weights were determined by Agilent Technologie 1260 Infinity II GPC/SEC System equipped with Triple detector (RI, Viscometer, RALS 90o and LS 15o) and three columns (PLgel, 7.5x300 mm, 5µm-10µm, 105-106Å). THF (stabilized BHT) with 1%(v/v%) TEA was the eluent. The flow rate was 1.0 ml/min.

P18993A

# Chromatogram Plot



## Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	135911	99050	147991	214774	305684	193399	1.494

## B. DSC thermogram of the polymer:

