

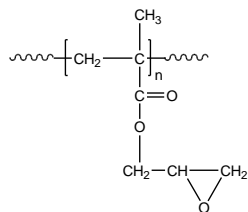
# Product Profile

## Identification

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

**Product Lot Number:** P18494-R-GMA

### Product Chemical Architecture:

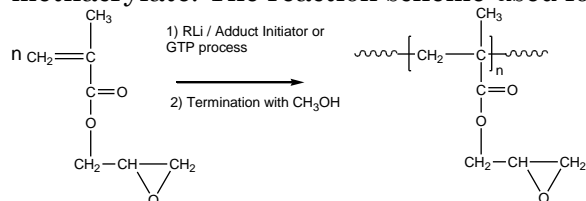


**Composition:**

<b>Mn (g/mole)</b>	<b>186,000</b>
<b>Mw (g/mole)</b>	<b>225,000</b>
<b>Mw/Mn</b>	<b>1.20</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	<b>X</b>
1,4-dioxane	✓	CHCl <sub>3</sub>	✓

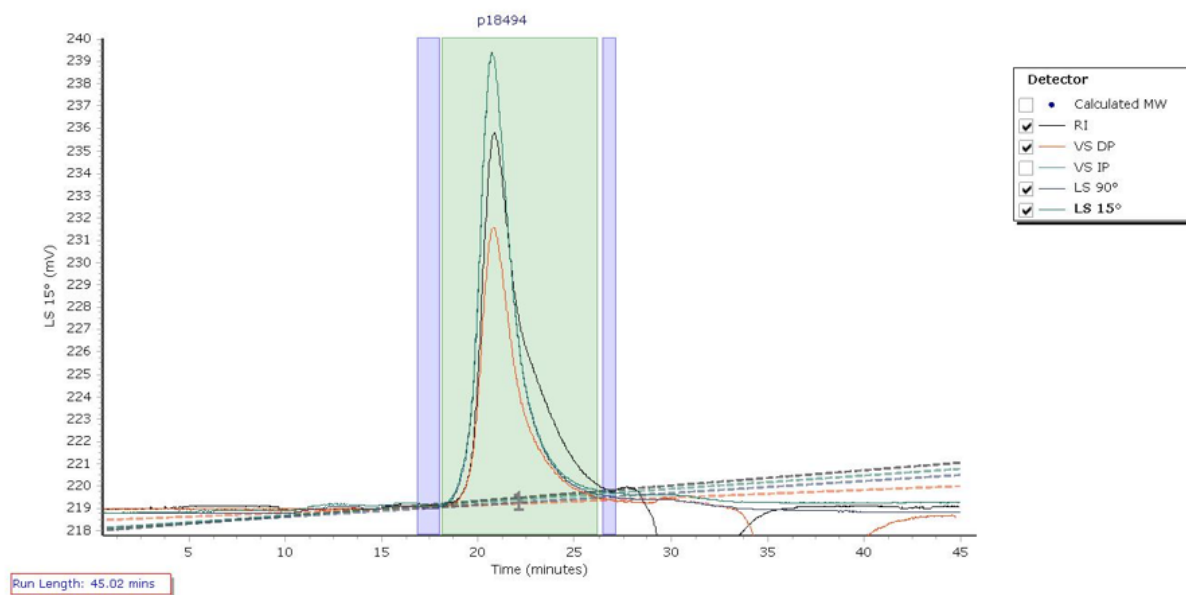
## Validation of Architecture

**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.

p18494

# 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	275762	186407	225312	256327	280158	250386	1.209

## B. DSC thermogram of the polymer:

