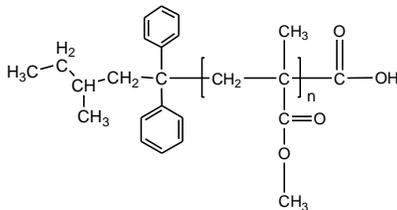


Sample Name:
Carboxy Terminated Poly(methyl methacrylate)

Sample #: **P41597-MMACOOH**

Structure:



Composition:

Mn x 10 ³	PDI
2.5	1.05
COOH functionality	98%
T _g for the functionalized polymer	78°C

Synthesis Procedure: By anionic process.

The polymer was prepared by anionic polymerization process.

Characterization:

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector before the addition of the CO₂H function.

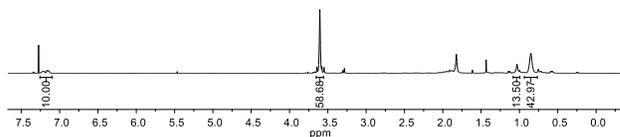
Thermal analysis:

Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature (T_g) has been considered.

Solubility:

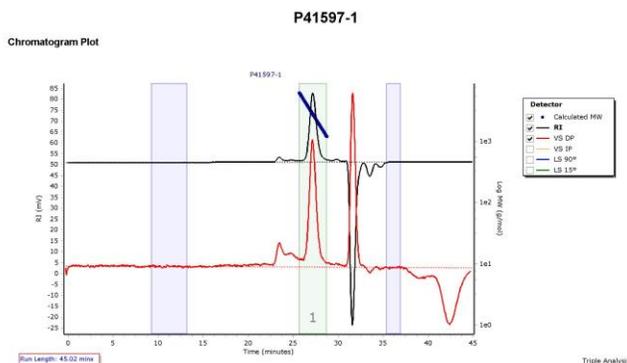
The polymer is soluble in THF, Toluene, chloroform and acetone etc.

HNMR spectrum of the Sample:



SEC elugram of the Sample:

Agilent GPC/SEC Software



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	2827	2631	2789	2951	3126	2914	1.06

Processing Parameters
 Method: RI
 Concentration Detector Used in: RI
 Analysis:
 Injection volume (µL): 100.00
 Flow rate (mL/min): 1.00
 Concentration options: Calculate Sample Concentration from Entered Sample Properties
 Entered divic (mL/g): 0.086
 Entered Ext Coeff ((mg/mL)⁻¹[(cm⁻¹)]): 1.000
 Calculated RI concentration: 3.214
 Last modified by Polymer Source at 11:41:18 AM on October-24-18

DSC thermogram for the sample:

